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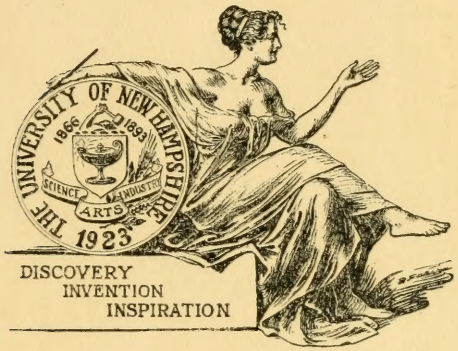

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INSPECTION OF COMMERCIAL FEEDING STUFFS

ANALYSES OF COMMERCIAL FEEDING-STUFFS COLLECTED BY THE COMMISSIONER OF AGRICULTURE IN 1922.

INTRODUCTION

This report deals with the inspection of commercial feeding-stuffs for the year 1922, made under the direction of the Honorable Andrew L. Felker, Commissioner of Agriculture. During the year 1919 the consumers of New Hampshire purchased about ten million dollars worth of commercial feeding-stuffs. The value of these materials is determined very largely by their chemical analysis. In order that the purchaser may be able to determine the value of a feeding-stuff the state law requires that commercial feeding-stuffs be labeled with a guaranteed analysis. To enforce the law and protect the consumer against the possible adulteration and misbranding of these materials the state maintains an inspection service. If this work is to be of the most value and protection the consumer must make use of it.

DO NOT THROW THIS BULLETIN AWAY! READ IT! USE IT WHEN YOU PURCHASE FEEDS!

Mr. E. D. Sanborn, State Inspector, visited most of the feed ware houses in the state and collected 360 samples of feeds.

QUALITY OF FEEDING-STUFFS ANALYZED.

The relative number of feeding-stuffs in the respective classes is very similar to that of the past two seasons. There is an increase in the number of poultry feeds, wheat

feeds, cotton seed meals and oil meals and a relative decrease in the number of mixed dairy feeds. The quality of the feeding-stuffs shows a marked improvement and the deficiencies in guaranteed analysis are less frequent this year. The largest percentage of deficiencies in analysis are found among the compounded feeds, oil meals, calf meals and poultry feeds. Last year over five per cent. of the samples analyzed were deficient in both protein and fat while this year only three per cent. show such deficiencies. A larger number than last year of the higher analysis and better quality cotton seed meals were found.

SLIDING SCALE OR DOUBLE GUARANTEE.

The law definitely provides that the manufacturer shall state only the minimum percentage of protein, fat and carbohydrates upon the guarantee. The object of this is to prevent the purchaser from being misled by a double guarantee. For example without this provision in the law when a guarantee shows 30 per cent. to 45 per cent. protein an analysis of 30 per cent. is all that is necessary to meet the guarantee, although the guarantee may lead the purchaser to believe that he may get close to 45 per cent., when as a matter of fact he is more apt to get 30 per cent. or even less. The last year has shown some improvement in this regard. In 1921 out of 246 samples analyzed 10 samples or 4 per cent. had a double guarantee while in 1922 out of 360 samples only 10 or less than 3 per cent. had a double guarantee. In publishing the guaranteed analysis the maximum figures have been used.

CLASSIFICATION OF FEEDING-STUFFS ANALYZED.

In classifying the feeding-stuffs the class names under which they have been sold have been used. Table Number 1 shows the number of feeding-stuffs in each class, the

average per cent. of protein and fat found and the price per 100 pounds.

TABLE NUMBER 1

Class	No. of Feeds	Average Percent. Protein	Average Percent. Fat	Average Price Per 100 lbs.
Alfalfa Meals	4	14.59	1.59	2.13
Beet Pulps	6	8.97	0.68	1.68
Calf Meals	7	23.34	4.88	5.13
Compounded Feeds	31	10.26	4.40	1.83
Cottonseed Meals	23	38.63	6.79	2.67
Dairy Feeds	38	23.19	5.43	2.39
Distiller's Grains	2	31.85	11.30	2.47
Flaxseed Meals	13	35.45	6.53	2.78
Gluten Feeds	7	27.97	2.75	2.51
Hog Feeds	10	20.14	5.75	2.40
Hominy Feeds	7	10.77	7.33	1.82
Miscellaneous Feeds	7	11.75	4.50	2.20
Poultry Feeds	58	26.38	7.08	3.51
Wheat Feeds	147	16.49	4.69	1.90
Total	360			

DEFICIENCIES IN ANALYSIS.

Table Number 2 shows the number of samples found deficient in protein and in fat, the number of samples deficient in both protein and fat also the percentage number of each class showing such deficiencies. In making up the table only those deficiencies of one half of one per cent. or more of protein and one fourth of one per cent. or more of fat were used.

TABLE NUMBER 2

Class	No. in Class	No. Def. ½% Protein	No. Def. ¼% Fat	No. Def. both Protein and Fat	% Def. ½% Protein	% Def. ¼% Fat	% Def. both Protein and Fat
Alafalfa Meals	4	0	0	0	0	0	0
Beet Pulps	6	0	0	0	0	0	0
Calf Meals	7	1	2	1	14	28	14
Compounded Feeds	31	6	5	1	19	16	3
Cottonseed Meals	23	2	0	0	9	0	0
Dairy Feeds	38	2	2	1	5	5	3
Distiller's Grains	2	0	0	0	0	0	0
Flaxseed Meals	13	2	1	1	15	8	8
Gluten Feeds	7	0	0	0	0	0	0
Hog Feeds	10	1	0	0	10	0	0
Hominy Feeds	7	0	0	0	0	0	0
Miscellaneous Feeds	7	2	3	2	29	43	29
Poultry Feeds	58	11	3	3	19	5	5
Wheat Feeds	147	6	3	2	4	2	1
Total	360	33	19	11	9.1	5.3	3.1

WHAT DOES THE CHEMICAL ANALYSIS MEAN?

In a feed analysis the following determinations are usually made: protein, fat, carbohydrates, ash, moisture and crude fiber.

Protein is determined by finding the percentage of total nitrogen and multiplying this by the factor 6.25, since it has been found that the average proteins contain 16 per cent. nitrogen. While this includes small amounts of certain other compounds which contain nitrogen, for all

practical purposes it is sufficiently accurate. Protein, then, is made up of the compounds in the feed which contain nitrogen.

Fat is determined by extracting a dried sample of the feeding-stuff with ether and weighing the residue after the ether is driven off. In main it contains the vegetable fats of which olive oil, linseed oil, peanut oil, and cottonseed oil are examples. It contains also small amounts of chlorophyll (the green coloring matter of the leaves), waxes, resins, etc.; but for practical purposes it is accurate enough to deal with it as fat.

Ash is determined by weighing the residue after the feeding-stuff has been burned at a low temperature. It contains the mineral matter of feeding-stuffs.

Moisture is determined by finding the loss in weight after heating at the temperature of boiling water. It shows the amount of water that the feed contains.

Carbohydrates are determined by adding the percentages of the protein, fat, moisture and ash, and subtracting the total from 100 per cent. The carbohydrates are composed largely of starches, sugars, pentosans, celluloses, etc. The carbohydrates include the crude fiber also. The percentage of carbohydrates less the percentage of crude fiber is called *nitrogen free extract.*

Crude Fiber is made up of the more woody-like carbohydrates which are largely of a cellulose nature. Pure cotton is an example of almost pure cellulose. Wood, straw, corn fodder, etc., are materials which are high in crude fiber content.

WHAT ARE FOODS FOR ANIMALS?

In order that an animal may continue to live even without making growth or producing wool, eggs, milk or work, etc., there are certain food materials which it must have. The

animal must have a certain amount of protein, fat, carbohydrates, water and mineral constituents. In addition there are other things, known as "vitamines", "growth promoting substances", or "food accessories", the chemical nature of which is not well understood, which are necessary. The latter substances, however, are usually present in sufficient quantities in our regular feeding-stuffs if we feed a sufficient variety and we need not consider them. Our feeding-stuffs contain mineral matter sufficient for the needs of an animal with a few exceptions, such as calcium carbonate which we furnish as oyster shells for hens, salt, and phosphorous and calcium which is sometimes fed to dairy cattle in bone meal so we need not consider the mineral matter further.

The Protein, fat and carbohydrates must be furnished in the feed and it is their content which largely determines the value of the feed.

DIGESTIBILITY IMPORTANT IN DETERMINING THE VALUE OF FEED.

When fed not all of the protein, carbohydrates and fat in the different feeding-stuffs are digested. In comparing the value of the different feeding-stuffs, especially when they are of different types, we must take into consideration the digestibility of these food nutrients. The *coefficient of digestibility* is a term which expresses the percentage amount of the food nutrients which are digested and absorbed by the animal. Table Number 3 gives a summary of the average results for some of our common feeding-stuffs.

TABLE NUMBER 3

AVERAGE DIGESTIBILITY OF FEEDING STUFFS, WITH RUMINANTS EXPRESSED IN PERCENTAGE

(Taken from "Feeds and Feeding" by Henry and Morrison.)

	Dry Matter	Protein	Crude Fiber	Nitrogen Free Extract	Fat
Corn Meal	90	74	57	94	93
Gluten Meal	88	85	55	90	93
Gluten Feed	86	85	76	88	85
Hominy Feed	83	66	76	90	91
Wheat Bran	65	78	31	72	68
Standarl Wheat Middlings	..	77	30	78	88
Barley	88	78	56	92	78
Oats	70	78	35	81	87
Buckwheat	71	75	24	76	100
Soybean Meal	..	92	99	100	68
Linseed Meal (old process)	79	89	57	78	89
Linseed Meal (new process)	81	86	73	87	95
Cottonseed	66	68	76	50	87
Cottonseed Meal	77	84	37	75	95
Cottonseed Feed	56	58	45	61	90
Dried Brewers' Grain	61	81	49	57	89
Dried Beet Pulp	75	52	83	83	..
Molasses Feeds	68	61	50	79	100
Flesh Meal	..	93	..	..	98
Fish Meal	71	78	..	..	100
Timothy Hay	55	48	50	62	50
Barley Hay	59	65	62	63	41
Oat Hay	54	54	52	56	61
Alfalfa	60	71	43	72	38
Red Clover	59	59	54	66	57
Corn Silage Dent Immature	64	53	68	66	71
Corn Silage Dent Mature	66	51	65	71	82

We have this data for the pure grains and feeds, but because the various proprietary feeds are not standardized there are no data available for them.

HOW TO USE TABLE NUMBER 3.

Only the digestible nutrients are of value and so in comparing two feeds we should compare just the digestible nutrients. Suppose we had a cottonseed meal which analyzed 38 per cent. protein.

The table shows cottonseed protein to be 84 per cent. digestible. We then would have 84-100 of 38 lbs., or 31.9 lbs. of digestible protein per 100 lbs. If a wheat bran analyzed 15 per cent. protein we see from the table that it is 78 per cent. digestible and we would have 78-100 of 15 or 11.7 lbs. of digestible protein. The cottonseed meal would have 31.9 lbs. compared with 11.7 in wheat bran.

HOW TO FIGURE THE COMPARATIVE VALUE OF FEEDS FROM THE CHEMICAL ANALYSIS.

Because such factors as palatability, digestibility, etc., play an important part in determining the value of feeding-stuffs it is difficult to make an exact comparison of their value from a chemical analysis. The analysis will, however, serve as a very valuable guide. Since the farmer can usually raise carbohydrates cheaper than he can purchase them he is chiefly interested in buying the concentrated feeding-stuffs for their protein and fat content.

Feeds may be compared upon the basis of the number of pounds of protein and fat which one dollar will buy. An example is as follows: Feed number 21 sells for $2.70 per 100 pounds and is guaranteed protein 9.50 per cent. and fat 4.00 per cent. If it contains 9.50 per cent. protein there are 9.5 pounds of protein in 100 pounds of feed costing $2.70. Then one dollar will buy 9.50 divided by 2.70 or 3.5

pounds of protein and 4.00 divided by 2.70 or 1.5 pounds of fat. Feed number 122 sells for $2.10 per 100 pounds and is guaranteed 13.00 per cent. protein and 4.50 per cent. fat. Then one dollar buys 13.00 divided by 2.1 or 6.1 pounds of protein and 4.50 divided by 2.10 or 2.1 pounds of fat.

In other words in feed number 122 the consumer receives almost twice as much protein and half again as much fat per dollar as in feed number 22. These figures represent two feeds of the same type which were sold in New Hampshire in 1922. In comparing feeds of the same class this method shows fairly accurately their relative value. When feeds of different types like a cottonseed meal and a hominy feed are compared the digestible protein figures should be compared and the carbohydrates must also be taken into consideration.

Table Number 4 shows the average number of pounds of protein and fat one dollar would buy for each class of the feeding-stuffs analyzed in 1922.

TABLE NUMBER 4

Class	No. of lbs. of Protein $1.00 will buy	No. of lbs. of Fat $1.00 will buy
Alfalfa Meals	6.8	0.7
Beet Pulps	5.3	0.4
Calf Meals	4.5	0.9
Compounded Feeds	5.6	2.4
Cottonseed Meals	14.5	2.5
Dairy Feeds	9.7	2.3
Distillers' Grains	12.9	4.6
Flaxseed Meals	12.8	2.4
Gluten Feeds	11.1	1.1
Hog Feeds	8.4	2.4
Hominy Feeds	5.9	4.0
Miscellaneous Feeds	5.3	2.0
Poultry Feeds	7.5	2.0
Wheat Feeds	8.7	2.5

COMPARATIVE VALUES OF COTTONSEED MEALS.

Twenty-three samples of cottonseed meals were analyzed. A comparison of the analysis and selling prices show that the higher the analysis the cheaper the cost of protein is per pound. Table Number 5 shows the number of samples analyzed under each percentage, the price per 100 pounds and the average number of pounds of protein that one dollar would buy in each case,

TABLE NUMBER 5

COTTONSEED MEALS

Guaranteed % of protein	Number of samples	Average % of protein found	Average price per 100 pounds	No. pounds of protein $1.00 will buy
36	15	36.62	$2.62	14.0
38	1	39.82	2.75	14.5
41	4	41.98	2.85	14.7
43	3	43.78	2.67	16.4

One dollar would buy 14 pounds of protein in the 36 per cent. cottonseed meals and 16.4 pounds in the 43 per cent. cottonseed meals. *Or in other words one dollar would buy over seventeen per cent. more protein in the 43 per cent. cottonseed meals than in the 36 per cent. meals.* The average price per ton of the higher analysis meals is higher but the cost per pound of protein is less. *Determine the comparative value of the feeds offered for sale before purchasing. BUY INTELLIGENTLY!*

READY MIXED FEEDS SHOULD BE PROPERLY BALANCED.

In selecting a ready mixed feed such as a dairy feed it is well to examine the analysis and see that the feed is properly balanced for use with the kind of roughage which you

feed. The Dairy department of the New Hampshire college recommend for use with a high protein roughage a feed containing 15 per cent. crude digestible protein, for use with a medium protein roughage a feed containing 17 per cent. crude digestible protein, and for use with a low protein roughage a feed containing 19 per cent. crude digestible protein. The analysis of a feeding-stuff shows the crude protein of which a portion is not digestible. While it is impossible to give an accurate figure for the digestibility of ready mixed feeds it will be approximate to assume that from 80 to 85 per cent. of the crude protein is digestible. On such a basis for use with a high protein roughage a ready mixed dairy feed should contain at least 17.5 per cent. protein with a medium protein roughage at least 20.00 per cent. protein and with a low protein roughage at least 22.00 per cent. protein.

SOME SUGGESTIONS IN PURCHASING FEEDS.

1. Compare the cost of feeds with their analysis even within the same class and buy the feeds which offer the greatest value for the dollar.

2. Beware of misleading brand names indicating unusual feeding value. Let the analysis rather than the brand name be your guide.

3. If you grow legumes or high protein crops for roughage you will need to buy less of the expensive protein feeds.

4. A good feed is high in protein and fat or carbohydrates and low in crude fiber.

5. A poor feed is low in protein and fat and high in crude fiber.

6. If you buy a ready mixed feed be sure that it is of the proper analysis to meet your needs.

Acknowledgements are due Mr. J. A. Gallagher, who assisted in making the protein determinations.

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
ALFALFA MEALS								
Alfalfa Meal	G.	12.00	1.00	40.00	....	.....	35.00	Alfalfa hay.
Denver Alfalfa Milling & Products Co. Lamar, Col.	F.	13.90	1.37	68.62	8.40	7.71	.....	
Alfalfa Meal	G.	13.00	1.00	35.00	....	.....	35.00	Made from the best alfalfa hay.
Farmers' Alfalfa Products Co. Syracuse, N. Y.	F.	15.33	1.01	69.06	5.52	9.08	.....	
Alfalfa Meal	G.	12.00	1.00	40.00	....	.....	35.00	Made from alfalfa hay.
Omaha Alfalfa Milling Co. Cozad, Nebr.	F.	14.42	2.25	65.93	7.98	9.42	.....	
Otto Weiss Alfalfa Meal	G.	12.00	1.00	35.00	....	.....	35.00	Ground alfalfa hay.
Otto Weiss Milling Co. Wichita, Kansas.	F.	14.71	1.74	68.84	6.94	7.77	.....	
BEET PULPS								
Dried Beet Pulp	G.	8.00	0.50	58.00	2.50	.....	20.00	Residue of sugar beets dried after extraction of sugar.
Clover Leaf Milling Co. Buffalo, N. Y.	F.	10.32	0.65	81.46	3.13	4.44	.....	
Dried Molasses Beet Pulp	G.	8.00	.....	.....	6.00	.....	20.00	Composed only of residue of sugar beets (molasses and pulp) dried after extraction of sugar.
Great Western Sugar Co. Denver, Col.	F.	9.33	0.66	75.96	4.99	9.06	.....	
Dried Beet Pulp	G.	8.00	0.50	60.00	....	.....	20.00	
Max Hottelet Milwaukee, Wis.	F.	8.43	0.76	77.91	3.06	9.84	.....	
Dried Beet Pulp	G.	8.00	0.50	76.00	....	.....	20.00	
Larrowe Milling Co. Detroit, Mich.	F.	8.57	0.50	77.53	3.93	9.47	.....	

Dried Beet Pulp	G.	8 00	0.50	50 00	....	.....	20.00	Residue of sugar beets after extraction of sugar.
Charles Pope	F.	8.13	0.89	76.46	3.27	11.25	.....	
Chicago, Ill.								
Dried Beet Pulp	G.	8.00	0.50	60.00	....	.....	20.00	
Ubiko Milling Co.	F.	9.06	0.62	78.13	2.15	10.04	....	
Cincinnati, Ohio.								
CALF MEALS								
Blatchford's Calf Meal	G.	21.00	5.00	53.00	....	.....	6 75	Locust bean meal, unpressed flaxseed, blood flour, rice polish, old process linseed meal, dried milk albumen, barley meal, ground beans, wheat flour, cocoanut meal, recleaned cottonseed meal, cocoa shell meal, anise and salt.
Blatchford Calf Meal Co.	F.	26.02	4.71	53.62	5.47	10.18	6.17	
Waukegan, Ill.								
Jersee Milk Food Compound	G.	9 00	4.50	.....	....	.....	6.00	Powdered milk, St. John's bread, salt, starch, sugar, corn flour, flour middlings, dried blood, oxide of iron, calcium phosphate, anise.
Jersee Co.	F.	16.94	4.51	61.17	7.43	9.95	6.00	
Minneapolis, Minn.								
Stevens' Milkade Calf Meal	G.	20.00	8.00	.....	....	.....	7.50	Ground malt, linseed oil meal, wheat bran, wheat flour, cocoanut oil meal, bone meal, rice polish, cocoa shell meal, wheat middlings, sesame oil meal, blood flour, charcoal and a small percentage of calcium carbonate, ground fenugreek, ground anise and salt.
Park and Pollard Co.	F.	24.19	8.00	50.12	8.34	9.35	6.38	
Boston, Mass.								
Purina Calf Chow Feed	G.	27.00	3.20	55.00	....	.....	4.50	Blood flour, linseed meal, hominy feed, yellow corn feed meal, wheat flour and 1% salt.
Ralston Purina Co., Inc.	F.	26.16	1.53	58.10	3.22	10.99	3.37	
St. Louis, Mo.								
Rydes' Cream Calf Meal	G.	25 00	5.00	55.00	4.75	.....	6.75	Wheat flour, linseed oil meal, recleaned cottonseed meal, beans and lentils, hominy feed, locust bean meal, blood flour, ground flaxseed, malt flour, cocoa shell meal, fenugreek, anise and salt.
Ryde and Company	F.	26.71	5.00	52.30	5.52	10.47	6.75	
Chicago, Ill.								
Security Food Compound	G.	9.80	4.50	.....	....	.....	6.00	Locust beans, fenugreek ginger, anise, sodium chloride, oxide of iron, starch, sugar, corn flour, red dog, wheat middlings and powdered milk.
Security Food Co.	F.	17.16	4.62	60.41	7.18	10.63	6.00	
Minneapolis, Minn.								
Ti-O-Ga Calf Food	G.	21.00	4.00	. ...	....	.....	7.00	Old process linseed oil meal, bone meal, wheat middlings, blood meal, cocoanut oil meal, sifted oats meal, cane molasses, cottonseed meal, phosphate of lime, salt.
Tioga Mill & Elevator Co.	F.	26.18	5.78	50.95	7 68	9.41	5 38	
Waverly, N. Y.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
COMPOUNDED FEEDS								
Armour's Steam Cooked Feed	G.	9.00	4.00	64.00	....	.....	9.00	Ground corn, ground oats, hominy feed, oat hulls, oat shorts, ½ of 1% salt.
Armour Grain Co.	F.	9.85	6.12	71.60	4.25	8.17	8.34	
Chicago, Ill.								
Iroquois Creamery Feed	G.	18.00	4.00	58.00	....	.....	13.00	Corn feed meal, hominy feed, corn gluten feed, cottonseed meal, oat shorts, oat hulls, wheat bran, wheat middlings containing mill run of screenings, ½ of 1% salt.
Armour Grain Co.	F.	16.46	6.57	62.52	4.82	9.63	12.85	
Chicago, Ill.								
Pennant Brand Stock Feed	G.	9.00	5.00	60.00	....	.....	12.00	Fine white hominy and oat by-products, oat middlings, oat hulls, and oat shorts.
E. W. Bailey & Co.	F.	9.26	5.84	71.44	3.67	9.79	11.19	
Swanton, Vt.								
Clover Leaf Stock Feed	G.	10.00	3.50	60.00	....	.....	15.00	Hominy feed, corn feed meal, wheat middlings, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% fine table salt.
Clover Leaf Milling Co.	F.	9.27	4.66	72.12	4.53	9.42	13.42	
Buffalo, N. Y.								
Cowee's Stock Feed	G.	9.00	4.00	45.00	....	.....	10.00	Ground oats, hominy feed and oat meal mill by-products, oat middlings, oat shorts, oat hulls, ½ of 1% salt.
E. A. Cowee Co.	F.	9.00	5.68	72.31	4.43	8.58	10.00	
Fitchburg, Mass.								
Horse Feed	G.	10.00	3.00	50.00	....	.....	14.00	Cracked corn, crushed oats, cane molasses, alfalfa meal, ½ of 1% salt.
J. Cushing Co.	F.	9.23	3.07	73.46	2.88	11.36	5.68	
Fitchburg, Mass.								
Stock Feed	G.	10.00	3.00	50.00	....	.....	10.00	Corn feed meal, wheat middlings, hominy feed, choice cottonseed meal, oat meal mill by-products, reground grain screenings.
J. Cushing Co.	F.	14.26	3.29	69.06	1.83	11.56	8.13	
Fitchburg, Mass.								
Grandin's Stock Feed	G.	9.00	5.00	55.00	....	.....	12.00	Corn meal, corn feed meal, hominy feed, wheat middlings, ground barley, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% salt, wheat middlings, may contain ground screenings not exceeding mill run.
D. H. Grandin Milling Co.	F.	9.32	6.58	71.47	4.05	8.58	10.85	
Jamestown, N. Y.								

Homstead Stock Feed								
Illinois Feed & Elevator Co.	G.	9.00	3.50	.....	....	.....	9.00	Whole ground corn, oats, barley, kaffir corn,
Bloomington, Ill.	F.	7.53	3.25	76.67	2.31	10.24	8.37	hominy feed, corn germ meal, oat meal mill by-products, oat middlings, oat flour and oat hulls.
Special Stock Feed	G.	8 00	3.00	5 00	....	.....	9.00	Whole ground corn, oats, barley, wheat, mill
Illinois Feed & Elevator Co.	F.	8.60	4.36	74.40	3.16	10.08	9.00	by-products, oat flour, oat middlings, oat hulls.
Bloomington, Ill.								
Imperial Steam Cooked Feed	G.	9.50	4.00	.....	....	.....	4.00	
Imperial Grain & Milling Co.	F.	10.30	4.46	73.09	2.38	9.77	6.54	
Toledo, Ohio.								
Lancaster Stock Feed	G.	10.00	3.00	.....	....	.....	10.00	Corn feed meal, wheat middlings, hominy feed,
Lancaster Mill & Elevator Co.	F.	11 34	5.24	69.59	3.97	9.86	8.96	cottonseed meal, oat meal mill by-products,
Lancaster, Pa.								recleaned screenings.
Jumbo Stock Feed	G.	9.00	4.00	.....	....	.....	11.00	Ground corn, ground oats, ground barley,
McMillen Co.	F.	8.61	3.45	72.54	2.97	12.43	10.98	ground kaffir, corn feed meal, oat hulls, oat
Fort Wayne, Ind.								middlings, oat shorts, ground screenings from wheat, corn, oats, barley, kaffir, buckwheat, millet, sunflower seed.
Stock Feed	G.	12.00	3.00	60.00	....	.....	12 00	
McQuesten & Lewis	F.	13.11	3.70	68.17	4.55	10.47	11.91	
Manchester, N. H.								
Pilgrim 1620 Ration	G.	9.00	4.00	60.00	....	.....	9.00	Ground ear corn, barley, oats, rice bran, cal-
Park & Pollard Co.	F.	10 04	3.67	71 19	4.83	10.27	7.98	cium carbonate, salt.
Boston, Mass.								
Stock Feed	G.	9.00	4.00	50.00	....	.....	12.00	Ground corn, hominy feed, oat hulls, oat mid-
Park & Pollard Co.	F.	9.59	3.04	72.22	5.16	9.99	11.19	dlings, oat shorts, old process linseed meal,
Boston, Mass.								calcium carbonate and salt.
Iowa Stock Feed	G.	10.00	4.00	.....	....	.....	12.75	Wheat middlings, corn meal, hominy feed,
Purity Oats Co.	F.	9.46	3.91	72.45	4.37	9.81	12.75	brewers dried grains, corn gluten feed, oat
Davenport, Iowa.								meal mill by-products, oat shorts, oat hulls, oat middlings and 1% of table salt.
Purity Stock Feed	G.	10.00	4.00	.....	....	.....	12.75	Wheat middlings, corn meal, hominy feed,
Purity Oats Co.	F.	10 29	4.24	71.97	4.04	9.46	12.75	corn gluten feed, oat meal mill by-products,
Davenport, Iowa.								oat shorts, oat hulls, oat middlings and 1% table salt.

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Green Cross Horse Mixed Feed with Molasses	G.	10.00	2.50	54.00	....	.....	13.50	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% salt.
Quaker Oats Co. Chicago, Ill.	F.	10.92	2.01	70.95	5.48	10.64	11.95	
Schumacker Feed	G.	10.00	3.25	58.00	....	.....	12.00	Ground corn, hominy feed, yellow hominy feed, ground barley, cottonseed meal, old process linseed oil meal, low grade wheat flour, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-products, oat middlings, oat shorts, oat hulls, ¼ of 1% salt.
Quaker Oats Co. Chicago, Ill.	F.	11.00	4.13	71.56	3.53	9.78	11.16	
Sugared Schumacher Feed	G.	10.00	3.25	58.00	....	.....	12.00	Ground corn, hominy feed, yellow hominy feed, ground barley, molasses, cottonseed meal, old process linseed oil meal, low grade wheat flour, wheat bran and wheat middlings with ground wheat screenings not exceeding mill run, oat meal mill by-products, oat middlings, oat hulls, oat shorts and ¾ of 1% salt.
Quaker Oats Co. Chicago, Ill.	F.	11.37	3.88	71.35	4.53	8.87	11.86	
White Diamond Stock Feed	G.	8.50	2.50	62.00	....	.....	10.00	Fine ground corn, oat meal mill by-products, oat middlings, oat hulls, oat shorts, ½ of 1% salt.
Quaker Oats Co. Chicago, Ill.	F.	8.07	3.12	75.19	3.10	10.52	9.19	
White Diamond Stock Feed	G.	8.00	3.00	60.00	....	.....	14.00	Ground corn, hominy feed, barley feed, oat meal mill by-products, oat hulls, oat shorts, oat middlings, ¾ of 1% salt.
Quaker Oats Co. Chicago, Ill.	F.	8.23	3.17	75.45	3.41	9.74	13.56	
Purina O'Molene Feed	G.	9.70	3.20	67.00	.....	.....	8.00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.
Ralston Purina Co. St. Louis, Mo.	F.	9.71	3.67	71.57	4.39	10.66	9.26	
New Hampshire Stock Feed	G.	13.00	4.50	65.00	....	.....	9.00	Ground fancy oats, hominy, bran, oil meal.
Rockingham County Farmers' Exchange Exeter, N. H.	F.	13.58	5.41	67.12	2.88	11.01	7.44	

Charlestock Feed	G.	10.00	4.00	50.00	....	.....	14.00	Oat feed, oat meal mill by-products, oat middlings, oat shorts, oat hulls, hominy or corn meal, linseed oil meal, ½ of 1% salt.
St. Albans Grain Co.	F.	9.42	4.96	73.23	3.75	8.64	14.03	
St. Albans, Vt.								
Wirthmore Stock Feed	G.	9.00	4.00	60.00	....	.....	9.50	Ground barley, ground oats, ground hominy meal, ground corn, oat meal mill by-products, oat middlings, oat shorts, oat hulls, ½ of 1% salt.
St. Albans Grain Co.	F.	11 39	4.17	72.79	3.72	7.93	9.09	
St. Albans, Vt.								
Haskell's Stock Feed	G.	9.00	6.00	61.00	....	.....	9.00	Ground corn, ground oats, hominy feed, oat hulls, oat shorts, salt.
Sheets Elevator Co.	F.	9.94	6.87	71.06	2.42	9.71	9.00	
Toledo, Ohio.								
Stott's Winner Feed	G.	8.50	3.50	63.00	....	.....	10.00	
David Stott Flour Mills	F.	10.16	5.50	71.36	2.75	10.23	8.17	
Detroit, Mich.								
Stock Feed 24	G.	7.50	2.83	66.00	....	9.60	14.43	Cereal by-products, reground oat feed, oat middlings, oat shorts, corn bran, corn mill by-products, cracked corn siftings, best fine yellow corn meal.
Stratton & Co.	F.	7 74	3.22	75.98	3.14	9.92	13.86	
Concord, N. H.								
Blue Seal Stock Feed	G.	10.00	4.00	70.00	....	.....	10.00	Ground oats, kiln dried hominy feed, wheat feed, corn meal, linseed meal, oat feed and not over ½ of 1% salt.
H. K. Webster Co.	F.	11.46	5.29	68.65	4.62	9.98	8.96	
Lawrence, Mass.								
COTTONSEED MEALS								
Longhorn Brand Prime Cottonseed Meal	G.	43.00	6.00	25.00	.....	.....	12.00	
American Cotton Oil Co.	F.	43.61	8.08	35.59	5.99	6.73	.....	
Huntsville, Ala.								
Surety Brand Cottonseed Meal	G.	36.00	5.50	27.00	.....	.....	14.00	
American Cotton Oil Co.	F.	36.74	6.79	43.47	5.92	7.08	.....	
New York, N. Y.								
Paramount Brand Good Cottonseed Meal	G.	36.00	5.50	27.00	.....	.....	14.00	Made from Upland cottonseed.
	F.	37.48	6.24	43.72	6.69	5.87	.....	
Ashcraft-Wilkinson Co.								
Atlanta, Ga.								
"Jay Brand" Cottonseed Meal	G.	36.00	5.00	30.00	.....	.....	14.00	A mixture of cottonseed meal and cotton-seed hulls.
F. W. Brode & Co.	F.	34.44	5.64	47.47	6.20	6.25	.....	
Memphis, Tenn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Owl Brand 41 High-Grade Cottonseed Meal F. W. Brode & Co. Memphis, Tenn.	G.	41.00	6.00	22.00	....	.....	10.00	Made from cottonseed.
	F.	42.62	7.27	36.50	6.84	6.77	.....	
Buckeye Cottonseed Meal Buckeye Cotton Oil Co. Cincinnnati, Ohio.	G.	36.00	5.00	30.00	....	.....	14.00	
	F.	36.40	6.03	44.66	6.02	6.89	.....	
Choice Cotton Seed Meal Cameron-Daniel Co. Atlanta, Ga.	G.	41.13	7.00	28.00	....	.....	10.00	
	F.	41.49	8.59	35.66	6.32	7.94	.....	
Good Cottonseed Meal Cameron-Daniel Co. Atlanta, Ga.	G.	36.00	5.50	27.00	....	.....	14.00	Made from upland cottonseed only.
	F.	36 00	6.54	45.18	5.99	6.29	.....	
"Beauty Brand" Cottonseed Meal S. P. Davis Little Rock, Arkansas.	G.	36.00	6.00	.....	....	.....	14.00	Made from cottonseed meal and cottonseed hulls.
	F.	36.01	7.34	42.39	6.40	7.86	.....	
Cottonseed Meal, St. Clair Brand East St. Louis Cotton Oil Co. National Stock Yards, Ill.	G.	36.00	5.00	.....	....	.....	16.00	
	F.	36.29	6.12	44.31	6.20	7.08	.....	
Good Cottonseed Meal W. D. Hall Co. Atlanta, Ga.	G.	36.00	5.50	27.00	.....	.....	14.00	Made from upland cottonseed only.
	F.	35 77	5.98	44.20	6.02	8.03	.....	
Rabbitfoot Brand Cottonseed Cake and Meal Head and Company Dallas, Texas.	G.	43.00	5.00	.....	....	.....	12.00	
	F.	43.26	6.09	37.85	5.78	7.02	.....	
Bull Brand Cottonseed Meal Humphreys-Godwin Co. Memphis, Tenn.	G.	43.00	5.00	26.00	.....	.....	10 00	Made from pressed cottonseed.
	F.	44.46	7.57	34.13	6.12	7.72	.....	

Danish Brand Cottonseed Meal	G.	36.00	5.00	25.00	....	.....	15.00	Made from pressed cottonseed.
Humphreys-Godwin Co.	F.	34 15	5.32	47.78	6.26	6.49	.....	
Memphis, Tenn.								
Dixie Brand Cottonseed Meal	G.	41.00	5.00	26.00	....	.....	10.00	Made from pressed cottonseed.
Humphreys-Godwin Co.	F.	42.64	7.24	36.98	6.82	6.32	.....	
Memphis, Tenn.								
Holstein Brand Cottonseed Meal and Ground Cottonseed Hulls Mixed	G.	36.00	5.00	22.00	....	.....	14.00	Made from cottonseed meal and cottonseed hulls.
Lanier Bros.	F.	38.28	5.72	41.74	6.36	7.90	.....	
Nashville, Tenn.								
Lovitt Brand Cottonseed Meal	G.	41.00	6.00	26.00	....	.....	10.00	Made from decorticated cottonseed.
L. B. Lovitt & Company	F.	41 17	6.26	39 39	6.49	6.69	.....	
Memphis, Tenn.								
Good Cottonseed Meal	G.	36.00	5.00	.....	....	.....	14.00	Made from cottonseed.
Marianna Cotton Oil Co.	F.	41.49	10.21	35.07	6.44	6.97	.....	
Marianna, Ark.								
Eagle Brand High-Grade Cottonseed Meal	G.	38.62	6.00	30.00	....	.....	10.00	
C. L. Montgomery & Co.	F.	39.82	7.17	38.10	7.20	7.71	.....	
Memphis, Tenn.								
Star Brand Cottonseed Meal	G.	36.00	6.00	24.00	....	.....	14.00	Made from pressed cottonseed.
C. L. Montgomery & Co.	F.	36 00	6.04	44 51	5.51	7.94	.....	
Memphis, Tenn.								
Puritan Cottonseed Meal	G.	36.00	5.00	30.00	.....	.....	15.00	
J. E. Soper Co.	F.	37.63	8.36	40.18	6.20	7.63	.....	
Boston, Mass.								
Good Cottonseed Meal	G.	36.00	5.50	27.00	....	.....	14.00	Made from upland cottonseed only.
Taylor Commission Co.	F.	36.00	5.92	45.00	5.42	7.66	.....	
Atlanta, Ga.								
Sun Brand Cottonseed Meal	G.	36.00	5.00	25.00	.....	.....	15.00	Made from pressed cottonseed.
A. C. Westervett & Co.	F.	36.64	5.78	43.78	6.17	7.63	.....	
Memphis, Tenn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
DAIRY FEEDS								
Capital Dairy Ration E. W. Bailey & Co. Swanton, Vt.	G. F.	23.00 24.51	5.50 5.76	48.00 54.29	.... 4.47	..... 10.97	10.00 7.93	
Bar-X Dairy Feed Buckeye Cereal Co. Massillon, Ohio.	G. F.	16.00 16.80	2.70 4.15	..... 62.42	.... 7.60	..... 9.03	15.00 13.26	Dried yeast grains, ground screenings, gluten feed, alfalfa meal, wheat bran, molasses, cottonseed meal, salt.
Green Mountain Dairy Ration Caledonia Mills, Inc. St. Johnsbury, Vt.	G. F.	25.00 23.33	6.00 4.94	50.00 57.71	.... 4.59	..... 9.43	10.00 10.00	Cottonseed meal, bran, ground oats, ground barley, gluten, hominy, oil meal.
Unicorn Dairy Ration Chapin & Co. Hammond, Ind.	G. F.	24.00 24.52	4.50 5.62	50.00 54.14	.... 6.27	..... 9.45	10.00 8.26	Cottonseed meal, linseed meal, corn gluten meal, corn gluten feed, corn oil meal, brewers' grains, wheat bran, hominy meal, salt.
Advanced Registry Dairy Feed Cloverleaf Milling Co. Buffalo, N. Y.	G. F.	25 00 27.08	5.50 6.72	50.00 52.81	.... 5.06	..... 8.33	11.00 9.16	Hominy feed, corn gluten feed, linseed meal, old process, cocoanut oil meal, old process, wheat bran, wheat middlings, dried grains from barley, malt and corn, cottonseed meal and ½ of 1% salt.
Clover Leaf Mills Dairy Feed Clover Leaf Milling Co. Buffalo, N. Y.	G. F.	16.00 16.00	4.00 4.82	50.00 61.93	.... 8.19	..... 9.06	14.00 14.00	Cottonseed meal, pure old process linseed meal, cocoanut oil meal, cleaned ground and bolted grain screenings, ground and bolted clipped oat by-product, molasses and ½ of 1% fine table salt.
Master Grain Ration Clover Leaf Milling Co. Buffalo, N. Y.	G. F.	24.00 26.08	5.00 5.53	50.00 53.10	.... 5.88	..... 9.41	10.00 8.79	Cottonseed meal, corn gluten feed, linseed meal, old process, cocoanut oil meal, old process, wheat bran, wheat middlings, dried grains from barley, malt and corn, molasses and ½ of 1% fine table salt.

Peerless Milk Ration	G.	20 00	4.50	50 00	....	.....	12.00	Cottonseed meal, pure old process linseed meal, cocoanut oil meal, corn gluten feed, wheat bran, dried grains from barley, malt and corn, clipped ground and bolted grain screenings, ground oat by-products, molasses and ½ of 1% salt.
Clover Leaf Milling Co.	F.	21.59	5.34	55.78	8.13	9.16	9.91	
Buffalo, N. Y.								
1917 Dairy Ration	G.	22.50	5.50	45.00	....	.....	9.00	Gluten feed, linseed meal, cottonseed meal, cocoanut oil meal, ground oats, wheat bran, wheat middlings and salt.
E. A. Cowee Co.	F.	23.58	5.55	56.50	4.95	9.42	9.00	
Fitchburg, Mass.								
Cushing's Dairy Feed	G.	25.00	5.00	40.00	....	.....	12.00	Choice cottonseed meal, wheat middlings, wheat bran, beet pulp, old process linseed meal, cocoanut oil meal, corn gluten feed, corn gluten meal and ½ of 1% salt.
J. Cushing Co.	F.	25.35	5.53	55.16	4.95	9.01	12.00	
Fitchburg, Mass.								
Dairy Feed	G.	24.00	5.00	40.00	....	.....	12.00	Choice cottonseed meal, wheat bran, wheat middlings, old process oil meal, alfalfa meal, cane molasses, cocoanut oil meal, corn gluten feed, corn gluten meal, ½ of 1% salt.
J. Cushing Co.	F.	24.96	5.00	55.67	5.62	8.75	11.86	
Fitchburg, Mass.								
Eastern States Dairy Ration	G.	22.00	5.00	55.00	....	.....	10.00	Corn gluten feed, old process oil meal, cottonseed meal, wheat bran, hominy, pure ground oats, ½ of 1% salt.
Eastern States Farmers' Exchange	F.	23.49	5.07	56.51	4.87	10.06	9.86	
Springfield, Mass.								
Grandin's Twin Six Dairy Feed	G.	22.00	5.00	50.00	....	.....	12.00	Linseed oil meal, cottonseed meal, cocoanut oil meal, wheat bran, wheat middlings, cornmeal, corn feed meal, hominy feed, wheat middlings with palm oil, ground oats, alfalfa meal, ½ of 1% salt, wheat bran and wheat middlings may contain ground screenings not exceeding mill run.
D. H. Grandin Milling Co.	F.	22.00	5.26	57.11	6.47	9.16	11.67	
Jamestown, N. Y.								
Avalon Dairy Feed	G.	25 00	5.50	50.00	.....	.....	11.00	Hominy feed, pure old process linseed meal, cocoanut oil meal, corn gluten feed, dried grains from barley, malt and corn, wheat bran, wheat middlings, cottonseed meal and ½ of 1% fine table salt.
Frank K. Hatfield	F.	25.68	6.21	53.58	5.75	8.78	10.06	
Boston, Mass.								
Homstead Dairy Feed	G.	22.00	5.00	50.00	....	.....	10.00	Corn distillers dried grains, linseed meal, prime cottonseed meal, corn gluten feed, dried sugar beet pulp, corn feed meal, wheat bran, salt and calcium carbonate.
Illinois Feed & Elevator Co.	F.	22.17	6.16	55.94	5.92	9.81	8.19	
Bloomington, Ill.								
International Diamond Dairy Feed	G.	24.00	5.00	42.00	....	.....	10.00	Corn gluten feed, wheat bran, old process oil meal, cottonseed meal, molasses, ground and bolted screenings from wheat, salt.
International Sugar Feed Co.	F.	24.00	5.68	55.88	4.65	9.79	10.31	
Minneapolis, Minn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
International Special Dairy Feed	G.	15 00	4.50	47 00	....	.....	12.00	Old process oil meal, cottonseed meal, corn gluten feed, wheat bran, middlings, ground clipped oats by-products, ground dried grain screenings, salt.
International Sugar Feed Co.	F.	15.29	5.84	58.27	10.68	9.92	10.89	
Minneapolis, Minn.								
A Dairy Mixture	G.	.....	.....	.....	....	.....	.....	Bran, cottonseed, linseed, hominy, ground oats, middlings, distillers' dried grains.
C. H. Jameson	F.	24.29	6.62	54.44	5 04	9.61	9 13	
Colebrook, N. H.								
B Mixture	G.	.....	.....	.....	.....	.....	.....	Bran, cottonseed, linseed, gluten, hominy meal, ground oats, middlings, distillers' dried grains, beet pulp.
C. H. Jameson	F.	23.02	6.07	56.67	4.78	9.46	10.19	
Colebrook, N. H.								
Larro Ready Ration	G.	20 00	3.50	58 00	.....	.....	14.00	Cottonseed meal, corn gluten feed, old process linseed oil meal, wheat bran, wheat middlings, dried beet pulp and ¾ of 1% salt, bran and middlings containing ground screenings not exceeding mill run.
Larrowe Milling Co.	F.	21.71	4.06	60.10	5.15	8.98	12.19	
Detroit, Mich.								
Bull Brand Dairy Ration	G.	24.00	6.00	50.00	....	.....	12.00	Dried brewers' grains, dried malt grains, old process oil meal, cottonseed meal, corn gluten feed, hominy feed, cocoanut meal, wheat bran, wheat middlings, ground oats and ¾ of 1% salt, wheat bran and wheat middlings may contain ground screenings not exceeding mill run.
Maritime Milling Co., Inc.	F.	26.05	6.17	52.77	5 26	9.76	10 92	
Buffalo, N. Y.								
Noyes' Milk or Bust	G.	.....	.....	.....	.....	.....	.....	Bran, gluten, oil meal, cottonseed meal, white hominy, ground oats, ¾ of 1% salt.
D. Allen Noyes	F.	23.69	5.64	56.64	4.67	9.36	8.26	
Colebrook, N. H.								
Stevens' Economy Feed	G.	24 00	6.00	43 00	.....	.....	8.00	
Park & Pollard Co.	F.	25.04	6.54	53.13	6.57	8.72	12.79	
Boston, Mass.								

Stevens' 44 Dairy Ration	G.	24.00	5.00	40.00	....	.....	14.00	Linseed oil meal, cottonseed meal, wheat bran with mill run of screenings, corn, gluten feed, cocoanut oil meal, pea meal, brewers' dried grains, corn distillers' dried grains, rice bran, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal, salt.
Park & Pollard Co. Boston, Mass.	F.	25.50	6.38	52.60	6 91	8.61	11 59	
Pillsbury's Dairy Ration	G.	19.00	4.00	50.00	....	.....	11.00	Ground oats, wheat bran, hominy feed, linseed meal, corn gluten feed, wheat standard middlings, cottonseed meal, and salt.
Pillsbury Flour Mills Co. Minneapolis, Minn.	F.	20.31	5.01	58.24	6.17	10.27	9.98	
Iowa Dairy Feed	G.	24 00	5.00	50.00	....	.....	10.00	Cottonseed meal, corn meal, hominy feed, flour middlings, cooked barley and oat meal, brewers' dried grains, oil meal, corn gluten feed, oat meal mill by-products, oat shorts, oat hulls, oat middlings and 1% of table salt.
Purity Oats Co. Davenport, Iowa.	F.	24.06	5.98	56.28	5.06	8.62	7.91	
The Big Q Dairy Ration	G.	21.00	4.50	50.00	....	.....	12.00	Hominy feed, yellow hominy feed, cottonseed meal, corn distillers' grains, corn gluten meal, old process linseed oil meal, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-products, oat middlings, oat hulls, oat shorts, calcium phosphate, 1% salt.
Quaker Oats Co. Chicago, Ill.	F.	25.35	5.46	54.83	5.28	9.08	10 93	
Purina 24% Cow Chow Feed	G.	24.00	4.30	53.00	.....	.....	12.00	Linseed oil meal, old process, gluten feed from corn, hominy feed, corn feed meal, cottonseed meal, molasses, ground alfalfa, 1% salt.
Ralston Purina Co. St. Louis, Mo.	F.	24.73	5.38	54.31	6.38	9.20	10.41	
New Hampshire Dairy Ration	G.	19 00	5.50	51.00	....	.....	7.50	Ground fancy oats, oil meal, bran, cottonseed meal, gluten feed, optional hominy or corn meal.
Rockingham Co. Farmers' Exchange Exeter, N. H.	F.	20.77	4.84	59.51	3.91	10.97	7.34	
Paragon Dairy Feed	G.	22.00	4.00	44.00	.....	.....	14.00	Cottonseed meal, linseed oil meal, corn gluten feed, oat feed, oat meal mill by-products, oat middlings, oat shorts, oat hulls, ground corn and corn screenings, wheat bran with ground screenings not exceeding mill run, and not over 1% salt.
St. Albans Grain Co. St. Albans, Vt.	F.	21.19	5.03	58.64	5.42	9.72	11.65	
Wirthmore Balanced Ration	G.	25.00	5.50	55.00	....	.....	11.00	Cottonseed meal, linseed meal, corn gluten feed, wheat bran, wheat middlings not exceeding mill run of screenings, corn distillers' grains, hominy or corn meal and not over ¾ of 1% salt.
St. Albans Grain Co. St. Albans, Vt.	F.	28.08	5.77	52.07	4.76	9.32	9.78	

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Wirthmore Dairy Feed with Beet Pulp St. Albans Grain Co. St. Albans, Vt.	G. F.	21.00 25.35	4.00 4.31	55.00 55.74	..... 4.58	..... 10.02	12.50 10.92	Beet pulp, cottonseed meal, linseed meal, wheat bran, wheat middlings, corn distillers' grains, corn gluten feed, corn meal, and not over ¾ of 1% dairy salt.
F. S. Co. Dairy Feed Frank Smith Co. Lancaster, N. H.	G. F.	20.00 20.21	4.00 4.56	48.00 59.84	..... 5.13	..... 10.26	11.00 9.12	Ground oats, corn meal, cottonseed meal, linseed oil meal, wheat bran, wheat middlings, gluten, beet pulp, 1% salt.
White Brand Ti-O-Ga-Dairy Feed ... Tioga Mill & Elevator Co. Waverly, N. Y.	G. F.	17.00 22.42	4.00 5.19	..... 56.55	..... 5.28	..... 10.56	12.00 8.19	Cottonseed meal, corn feed meal, corn meal or hominy, wheat middlings, corn gluten feed, linseed oil meal, wheat bran, cane molasses, salt.
Union Grains Biles Ready Dairy Ration Ubiko Milling Co. Cincinnati, Ohio.	G. F.	24.00 24.96	5.00 5.35	50.00 54.01	..... 5.37	..... 10.31	10.00 8.72	Corn distillers' dried grains, choice cotton-seed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, corn germ meal, cocoanut oil meal, corn gluten feed, brewers' dried grains, barley, malt sprouts, ½% fine table salt.
Blue Seal Dairy Feed H. K. Webster Co. Lawrence, Mass.	G. F.	22.00 22.59	5.00 5.00	50.00 57.63	..... 4.49	..... 10.29	10.00 9.02	Cottonseed meal, linseed oil meal, gluten feed bran, corn meal, crushed oats, bean meal and alfalfa.
Milk Queen Dairy Feed With Pulp ... Webster-Tapper Co. Boston, Mass.	G. F.	20.00 23.80	3.50 4.86	58.00 57.59	..... 4.26	..... 9.49	12.00 9.91	Corn gluten feed, old process linseed oil meal, cottonseed meal, dried beet pulp, wheat middlings, wheat bran and ½ of 1% fine table salt.
Wright's Favorite Dairy Feed ..... Charles F. Wright ..... Bellows Falls, Vt.	G. F.	20.00 21.50	3.00 4.88	50.00 57.19	..... 6.89	..... 9.54	10.00 8.71	Cottonseed meal, linseed meal, wheat bran, corn gluten feed, ivory nut meal, cocoanut oil meal, corn feed meal, starch, mill corn solubles with calcium salts, salt.

DISTILLERS' GRAINS								
Rossville Distillers' Dried Grains	G.	30.00	10.00	.....	....	.....	13.00	Made principally from corn.
Rossville Co.	F.	32.37	11.67	46.37	2.82	6.77	.....	
Lawrenceburg, Ind.								
Farmer Jones Corn Distillers' Grains .	G.	30.00	7.00	.....	.....	.....	14.00	Corn distillers' grains.
U. S. Food Products Corp.	F.	31.33	10.93	49.60	1.76	6.38	.....	
Peoria, Ill.								
GLUTEN FEEDS								
Cream of Corn Gluten Feed	G.	23.00	1.50	.....	.....	.....	8.50	
American Maize Products Co.	F.	23.31	2.84	62.38	3.58	7.89	.....	
New York, N. Y.								
Clinton Corn Gluten Feed	G.	23.00	2.00	52.00	.....	.....	8.00	
Clinton Corn Syrup Refining Co.	F.	25.60	3.00	57.33	2.85	11.22	.....	
Clinton, Iowa.								
Buffalo Corn Gluten Feed	G.	23.00	1.00	50.00	.....	.....	8.50	Corn gluten feed.
Corn Products Refining Co.....	F.	27.39	1.77	57.71	4.16	8.97	.....	
New York, N. Y.								
Diamond Corn Gluten Meal	G.	40.00	1.00	40.00	.....	.....	4.00	
Corn Products Refining Co.	F.	43.33	2.60	44.38	1.12	8.57	.....	
New York, N. Y.								
Jenk's Corn Gluten Feed	G.	22.00	3.00	.....	.....	.....	8.00	Corn starch, by-products with corn bran.
Huron Milling Co.	F.	24.20	4.18	62.05	2.41	7.16	.....	
Harbor Beach, Mich.								
Douglas Corn Gluten Feed	G.	23.00	1.00	60.00	.....	.....	8.00	
Penick & Ford Ltd., Inc.	F.	28.87	2.08	56.36	3.53	9.16	.....	
Chicago, Ill.								
Staley's Corn Gluten Feed	G.	23.00	1.00	50.00	.....	.....	8.00	
A. E. Staley Mfg. Co.	F.	23.09	2.79	62.62	2.97	8.53	.....	
Decatur, Ill.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
HOG FEEDS								
Blatchford's Pig Meal	G.	18.00	5.00	62.00	.....	.....	7.00	Old process oil meal, locust bean, barley meal,
Blatchford Calf Meal Co.	F.	22.20	5.00	58.68	5.26	8.86	7.00	malt sprouts, oat meal, corn, cottonseed, corn
Waukegan, Ill.								meal, cocoa shell meal, blood flour, ground beans and peas, unpressed flaxseed, wheat flour, rice polish, anise, salt.
Bicorn Hog Feed	G.	17.50	4.00	57.50	.....	.....	6.00	Digester tankage, peanut oil meal, wheat
Chapin & Co.	F.	18.17	5.73	59.83	7.46	8.81	4.92	flour, linseed meal, hominy meal, wheat mid-
Hammond, Ind.								dlings, corn germ meal, barley, oats, bone meal, starch, mill corn solubles with calcium salts, salt.
Hog Meal	G.	16.00	5.00	.....	....	.....	6.00	Digester tankage, dried buttermilk, corn feed
J. Cushing Co.	F.	16.60	5.86	60.98	4.82	11.74	6.00	meal, wheat middlings, wheat bran, hominy
Fitchburg, Mass.								feed, old process oil meal, charcoal.
Grandin's Hog Feed	G.	18.00	5.00	.....	.....	.....	10.00	Linseed oil meal, cocoanut oil meal, wheat
D. H. Grandin Milling Co.	F.	20.97	5.51	55.07	9.77	8.68	7.86	middlings, corn meal, corn feed meal or hom-
Jamestown, N. Y.								iny feed, ground meat and bone, calcium carbonate, alfalfa meal and ½ of 1% salt. Wheat middlings may contain ground screenings not exceeding mill run.
Hinckley Hog Tankage	G.	30.00	5.00	.....	.....	.....	.....	
Hinckley Rendering Co.	F.	30.00	7.16	.....	50.01	7.08	.....	
Somerville, Mass.								
Homstead Hog Feed	G.	16 00	4.50	.....	.....	.....	5.50	Digester tankage, corn germ meal, corn feed
Illinois Feed & Elevator Co.	F.	14.49	5.00	65.52	4.05	10.94	3.59	meal.
Bloomington, Ill.								
Larrowe Hog Feed	G.	18.00	5.00	.....	5.00	.....	10.00	Corn germ meal, old process linseed oil meal,
Larrowe Milling Co.	F.	22.66	6.61	55.05	5 39	10.29	8.16	hominy feed, meat meal, wheat middlings,
Detroit, Mich.								wheat bran, dried beet pulp, ½ of 1% salt.

New Hampshire Pig Ration	G.	15.00	3.00	49.00	....	.....	7.00	Ground fancy oats, (optional corn meal or hominy) flour middlings, high grade meat scraps.
Rockingham County Farmers' Exchange Exeter, N. H.	F.	17.12	5.38	62.17	5.19	10.14	5.31	
Wirthmore Hog Feed	G.	17.00	6.00	50 00	.....	.....	7.00	Tankage, wheat middlings, not exceeding mill run of screenings, hominy, corn meal, linseed meal, peanut feed, red dog flour, ground barley and about ½ of 1% salt.
St. Albans Grain Co. St. Albans, Vt.	F.	20.27	6.12	56.71	6.79	10.11	6.16	
Wirthmore Pig Feed	G.	18.00	5.00	50.00	.....	.....	9.50	Tankage, edible bone meal, wheat middlings, wheat bran, not exceeding mill run of screenings, linseed meal, peanut feed, ground alfalfa, ground hominy, corn meal, ground barley, and about ½ of 1% salt.
St. Albans Grain Co. St. Albans, Vt.	F.	18.95	5.17	58.04	7.45	10.39	9.46	
HOMINY FEEDS								
Homco Hominy Feed	G.	10.00	6.00	.....	.....	.....	6.00	Made from white corn only.
American Hominy Co. Indianapolis, Ind.	F.	11.51	8.32	68.11	2.89	9.17	.....	
Mystic White Hominy Feed	G.	8.50	4.00	.....	.....	.....	5.00	
International Milling Co. Sioux City, Iowa.	F.	10.22	6.77	69.72	2.30	10.99	.....	
B. C. White Hominy Feed	G.	10.00	6.00	55.00	.....	.....	5.00	Made from pure white corn.
Kellogg Toasted Corn Flake Co. Battle Creek, Mich.	F.	10.58	6.75	70.45	1.90	10.32	.....	
Badger White Hominy Feed and Corn Flour	G.	10.00	5.00	.....	.....	.....	5.00	Made from white corn.
Chas. A. Krause Milling Co. Milwaukee, Wis.	F.	10 09	5.95	70.41	2.13	11.42	.....	
Plymouth's Pure Hominy Feed	G.	10.00	8.50	61.00	.....	.....	6.35	
Plymouth Milling Co. Lemars, Iowa.	F.	10.74	8.50	69.37	2.51	8.88	.....	
Burt's Hominy Feed	G.	10.00	6.00	60.00	.....	.....	5.00	Made from white corn.
Postum Cereal Co. Battle Creek, Mich.	F.	11.14	7.52	69.51	2.62	9.21	.....	
Paragon Hominy Meal	G.	9.50	7.50	60.00	.....	.....	7.00	
St. Albans Grain Co. St. Albans, Vt.	F.	11.12	7.50	68.08	2.84	10.46	.....	

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
LINSEED MEALS								
Old Process Ground Oil Cake Archer-Daniels Linseed Co. Buffalo, N. Y.	G. F.	34.00 35.93	5.00 8.47	..... 42.56	.... 4.97	..... 8.07	10.00	
Old Process Ground Oil Cake Archer-Daniels Linseed Co. Buffalo, N. Y.	G. F.	31.00 33.77	5.00 6.27	..... 46.06	..... 5.29	..... 8.61	10.00	
Oil Meal Old Process American Linseed Co. Buffalo, N. Y.	G. F.	35.00 38.11	5.00 5.54	..... 41.59	..... 4.66	..... 10.10	8.00	
Oil Meal Old Process American Linseed Co. Buffalo, N. Y.	G. F.	32.00 36.78	5.00 5.85	..... 42.31	..... 5.11	..... 9.95	8.00	
Oil Meal Old Process American Linseed Co. Buffalo, N. Y.	G. F.	34.00 39.13	5.00 6.43	..... 39.89	..... 4.68	..... 9.87	8.00	
Old Process Linseed Meal and Old Process Screenings Oil Feed American Milling Co. Peoria, Ill.	G. F.	30.00 32.31	5.00 6.19	30.00 46.43	..... 5.79	..... 9.28	10.00	
Pure Oil Meal, Old Process Kelloggs & Miller Amsterdam, N. Y.	G. F.	37.00 32.56	7.00 6.05	..... 45.94	..... 5.58	..... 9.87	9.00	
Pure Old Process Linseed Oil Meal Mann Bros. Co. Buffalo, N. Y.	G. F.	35.00 35.44	6.00 7.13	..... 42.26	..... 4.73	..... 10.44	10.00	
Pure Old Process Linseed Oil Meal Mann Bros. Co. Buffalo, N. Y.	G. F.	33.00 35.35	6.00 6.00	..... 43.25	..... 4.99	..... 10.41	10.00	

Ground Linseed Cake, Old Process ...	G.	34.00	5.00	.....	.....	.....	9.50	
Midland Linseed Products Co.	F.	37.17	7.28	40.12	5.04	10.39	.....	
Minneapolis, Minn.								
Old Process Ground Linseed Cake	G.	30.00	5.00	.....	.....	.....	9.50	
Midland Linseed Products Co.	F.	38.50	6.87	39.11	5.50	10.02	.....	
Minneapolis, Minn.								
Pure Old Process Oil Meal	G.	31.00	5.00	.....	.....	.....	10.00	
Spencer Kellogg & Sons, Inc.	F.	29 67	6.66	46.70	6.10	10.87	.....	
Buffalo, N. Y.								
Oil Meal, Pure Old Process	G.	33.00	5.00	.....	.....	.....	10.00	
Spencer Kellogg & Sons, Inc.	F.	36.10	6.16	44.17	5.06	8.51	.....	
Buffalo, N. Y.								
MISCELLANEOUS FEEDS								
Kiln Dried Corn and Oats Chop	G.	10.00	4.00	.....	.....	.....	6.00	
Ansted & Burk Co.	F.	9.32	3.68	73.43	1.41	12.16	3.89	
Springfield, Ohio.								
Oat Hulls	G.	4.00	1.50	.....	.....	.....	30.00	
Armour Grain Co.	F.	4.05	1.31	80.61	6.74	7.29	.....	
Chicago, Ill.								
Dog Food	G.	30.00	10.00	.....	.....	.....	.....	
John C. Dow Co.	F.	27.24	8.86	45.76	5.02	13.12	.....	
Boston, Mass.								
Illinois Snowflake Meal	G.	9.50	4.50	.....	.....	.....	3.00	Whole ground corn.
Illinois Feed & Elevator Co.	F.	9.04	3.89	74.18	1.20	11.69	2.66	
Bloomington, Ill.								
Whole Ground Corn and Oats	G.	10.00	4 00	.....	.....	.....	7.00	Corn and oats.
Illinois Feed & Elevator Co.	F.	10.31	5.76	69.89	2.38	11.66	5.96	
Bloomington, Ill.								
Purity Oat Groat Nutriment	G.	14.00	5.00	65.00	.....	.....	4.00	Steam cooked oat groat.
Purity Oats Company	F.	15.96	6.25	67.57	2.56	7.66	2.81	
Davenport, Iowa.								
Purity Oat Feed	G.	5.00	1.75	.....	.....	.....	32.65	Oat middlings, oat shorts, oat hulls.
Purity Oat Co. of Keo Kuk	F.	6.33	1.75	77.38	6.77	7.77	.....	
Keo Kuk, Iowa.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
POULTRY FEEDS								
Protox Pure Ground Meat Scraps	G.	55.00	10.00	.....	.....	.....	.....	
American Agricultural Chemical Co.	F.	56.82	14.38	.....	20.44	6.04	.....	
New York City.								
Humpty-Dumpty Poultry Mash Feed .	G.	17.00	4.00	52.50	.....	.....	9.25	Wheat middlings and bran, alfalfa meal, corn
Ansted & Burk Co.	F.	16.41	4.85	62 63	5.84	10.27	8 50	meal, kaffir meal, meat scrap and gluten.
Springfield, Ohio.								
Armour's Cak-Cak-Laying Mash	G.	20.00	3.00	50.00	.....	.....	9.00	Meat scraps, fish meal, oat meal, alfalfa meal,
Armour Grain Co.	F.	20.04	5.92	56.57	7.81	9.66	8.73	linseed meal, bone meal, corn meal, wheat
Chicago, Ill.								bran containing mill run ground screenings, yellow hominy feed, carbonate of lime 1%, salt ½%.
Iroquois Poultry Mash	G.	15.00	4 00	60.00	.....	.....	6.00	Corn feed meal, hominy feed, corn gluten
Armour Grain Co.	F.	16.70	7.16	62.28	4.69	9.17	6 00	feed, oat middlings, oat meal, wheat bran,
Chicago, Ill.								wheat middlings containing mill run of ground screenings, ½ of 1% salt.
Beach's Star Brand Beef Scraps	G.	35.00	10.00	.....	.....	.....	.....	
Beach Soap Co.	F.	39.87	18.09	.....	33.15	4.99	.....	
Lawrence, Mass.								
Beach's Superior Beef Scraps								
Beach Soap Co.	G.	50.00	15.00	.....	.....	.....	.....	
Lawrence, Mass.	F.	50.00	17.02	.....	5.58	6.03	....	
Blatchford's Chick Mash	G.	20.00	4 00	52.00	.....	.....	7.50	Milk albumen, meat, fish, bone, blood, dried
Blatchford Calf Meal Co.	F.	21.54	5.35	52.41	10.07	10.63	6.82	milk albumen, meat scraps, fish meal, blood
Waukegan, Ill.								flour, bone meal, corn meal, oat meal, wheat middlings, cocoa shell meal, locust bean meal, rice polish, old process linseed meal, cocoanut oil meal, wheat flour, barley meal, calcium carbonate.

Burlington Poultry Feed	G.	50.00	12.00	.....	.....	.....	.....	Cooked meat and bone scraps.
Burlington Rendering Co. Burlington, Vt.	F.	52.47	12.08	.....	17 61	6.31	.....	
Climax Meat Mash	G.	14.50	5.00	.....	.....	.....	8.00	Corn meal, rolled oats, wheat bran, middlings,
Butman Grain Co. Lynn, Mass.	F.	16.68	5.66	60.35	6.46	10.85	6 15	gluten, alfalfa, meat scraps and bone ash.
Oro Laying Mash	G.	18.00	4 50	50.00	.....	.....	8.00	Meat and bone meal, peanut oil meal, cocoanut
Chapin & Co. Hammond, Ind.	F.	19.70	6.34	58.35	6.88	8.73	7.17	oil meal, corn oil meal, corn gluten feed, wheat bran, wheat middlings, corn feed meal, ground oats, ground barley, starch, mill run corn solubles with calcium salts and salt.
Clover Leaf Egg Mash	G.	18.00	4.00	50.00	....	.....	11.00	Linseed meal, old process, corn feed meal,
Clover Leaf Milling Co. Buffalo, N. Y.	F.	19.48	5.68	58.37	6 31	10.16	9 72	ground oat meal, meat meal, alfalfa meal, wheat bran, wheat middlings, ½ of 1% fine table salt and dried buttermilk.
Peerless Laying Mash	G.	18.00	4.00	50.00	.....	.....	10.00	Pure old process linseed meal, meat meal, corn
Clover Leaf Milling Co. Buffalo, N. Y.	F.	18.27	5.56	60.19	6.01	9.97	10 00	feed meal, wheat bran and wheat middlings, alfalfa meal, ½ of 1% fine table salt.
Lac-Ta-Fat Dried Buttermilk	G.	32.25	7 00	43.29	....	.....	.....	
Collis Products Co. Clinton, Iowa.	F.	32.25	7.00	47.03	5.42	8.30	0 22	
Conkey's Starting Feed	G.	12.00	3.00	60.00	....	.....	4.00	Hulled oats, wheat middlings, corn meal, corn
G. E. Conkey Co. Toledo, Ohio.	F.	12.98	6.62	64.17	5 49	10.74	4 40	feed meal, buttermilk, bone.
Poultry Climax Mash	G.	20.00	3.50	45.00	....	.....	10.00	Wheat bran, oats, barley, gluten, corn, wheat
E. A. Cowee Co. Fitchburg, Mass.	F.	19.15	4.27	56.38	8.98	11.22	9 16	middlings, alfalfa meal, linseed, meat and bone meal, fish scraps and salt.
Buttermilk Baby Chick Starter	G.	10.00	4 00	65.00	.....	.....	5.00	Oat meal, kiln dried corn meal, wheat feed,
J. Cushing Co. Fitchburg, Mass.	F.	16.34	5.67	66.34	3.36	8.29	5 00	wheat middlings, powdered butttermilk, bone meal, old process linseed meal.
Laying Mash	G.	20.00	5.00	45.00	....	.....	7.00	Dried buttermilk, meat and fish scraps, wheat
J. Cushing Co. Fitchburg, Mass.	F.	22.19	5.88	52.45	7 95	11.53	5 86	bran, corn feed meal, wheat middlings, corn gluten feed, ground oats, ground barley, hominy feed, old process oil meal, alfalfa meal.

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Delaware Laying Mash with Dried Milk Delaware Mills Deposit, N. Y.	G. F.	16.00 15.56	3.00 4.33	50.00 62.83	..... 4.76	..... 12.52	5.00 4.76	Dried milk, meat and bone scraps, linseed oil meal, wheat bran, corn feed meal, hominy feed, wheat middlings, corn gluten feed, ground milo maize, kaffir corn, oats, barley, buckwheat, ½ of 1% salt.
Dickinson's Globe Chick Mash Albert Dickinson Co. Chicago, Ill.	G. F.	18.00 16.74	4.00 4.65	50.00 62.27	..... 6.71	..... 9.63	8.00 6.65	Dried buttermilk, sifted meat scraps, corn feed meal, wheat middlings, oat flour, ground barley, fine ground alfalfa meal, 2% calcium carbonate, ½ of 1% salt.
Dickinson's Globe Egg Mash Albert Dickinson Co. Chicago, Ill.	G. F.	20.00 19.33	5.00 5.64	55.00 57.57	..... 7.68	..... 9.78	10.00 9 57	Meat scraps, corn gluten feed, linseed oil meal, wheat bran, wheat middlings, corn feed meal, alfalfa meal, ½ of 1% salt.
Dow's Ground Beef Scraps John C. Dow Co. Boston, Mass.	G. F.	43.00 47.95	12.00 13.80	....	..... 25 94	..... 7.32	....	Meat scraps.
Eastern's La-in Egg Mash Eastern Grain Co. Portland, Maine.	G. F.	20.00 22.53	5.00 6.46	..... 53.17	..... 6.98	..... 10.86	7.00 7.00	Dried buttermilk, meat scraps, fish scraps, wheat middlings, corn feed meal, wheat bran, corn gluten feed, ground oats, ground barley, hominy feed, old process oil meal, alfalfa meal.
Eshelman's Laying Mash John W. Eshelman & Sons Lancaster, Pa.	G. F.	20.00 21.84	5.00 6.67	..... 53.57	..... 6.93	..... 10.99	7.00 5.82	Dried buttermilk, meat and fish scraps, wheat middlings, corn, feed meal, wheat bran, corn gluten feed, ground oats, ground barley, hominy feed, old process oil meal, alfalfa meal.
Capital Meat and Bone Scraps Furbush & Co., Inc. Boston, Mass.	G. F.	40.00 43.86	10.00 10.12	....	..... 33.47	..... 6.23	....	Meat and bone scraps.

Grandin's Poultry Dry Mash with Buttermilk	G.	20.00	3 00	50.00	....	.....	10.00	Ground fish, ground meat and bone, corn gluten feed, wheat bran, wheat middlings, corn meal, corn feed meal, hominy feed, ground oats, ground scratch feed screenings consisting of corn, wheat, barley, kaffir corn, milo maize, buckwheat, powdered buttermilk, alfalfa meal, calcium carbonate and a small percentage of salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	19.09	4.05	56.63	11.13	9.10	9.69	
Greene's Buttermilk Poultry Mash	G.	14.00	5.00	.....	.....	.....	7.00	Dried buttermilk, fish scraps, milk albumen, meat and bone scraps, shell lime, ground screenings, hominy feed, gluten feed, alfalfa meal, wheat bran and salt.
Greene Chick Feed Co. Marblehead, Mass.	F.	13 21	4.66	56.29	18 15	7.69	7.85	
Greene's First Feed	G.	16.00	3.00	40.00	.....	.....	7.00	White corn, steam cooked; yellow corn germ meal, shredded codfish, steam cooked; ground hulled oats, steam cooked; dried buttermilk, steam cooked; entire wheat, cod livers, steam cooked; oil meal flax screenings, gluten meal, dried blood, shell lime and fine ground meat and bone scraps.
Greene Chick Feed Co. Marblehead, Mass.	F.	17.18	5.37	53.93	15.33	8.19	5.18	
Greene's Poultry Food	R.	45.00	10 00	.....	.....	.....	.....	Meat, bone and salt.
Greene Chick Feed Co. Marblehead, Mass.	F.	41.49	11.83	.....	33.30	9.36	.....	
Red Comb Egg Mash with Dried Buttermilk	G.	16.00	4.50	45.00	.....	.....	9.00	Corn feed meal, ground oats, corn gluten feed, wheat middlings, linseed oil meal, meat scraps, alfalfa meal, dried buttermilk, and not over 5% calcium carbonate.
Hales & Hunter Co. Chicago, Ill.	F.	17.61	5.49	59.22	7 31	10.27	7 85	
Hinckley Poultry Feed	G.	30.00	8.00	.....	.....	.....	.....	Cooked meat and bone scraps, animal products.
Hinckley Rendering Co. Somerville, Mass.	F.	37.92	11.89	.....	38.29	5.42	.....	
Illinois Laying Mash	G.	18.00	4 00	50.00	.....	.....	9.00	Dried buttermilk, granulated meat meal, corn feed meal, alfalfa flour, wheat bran, wheat middlings, oat middlings and oat flour.
Illinois Feed & Elevator Co. Bloomington, Ill.	F.	19.35	5.59	58.66	5.98	10.42	7 65	
Kasco Full Nest Mash	G.	20.00	3.50	.....	.....	.....	8.50	Wheat bran, wheat middlings, red dog flour, corn meal, ground kaffir corn, linseed oil meal, corn gluten feed, ground oats, meat and bone scraps, fish scraps, ¾ of 1% salt, beet pulp, alfalfa meal.
Kasco Mills Waverly, N. Y.	F.	23.03	3.63	54.56	8.14	10 64	6.92	

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Perfection Poultry Feed	G.	55 00	8.00	.....	....	.....	.....	Cooked meat and bone scraps, animal products.
Lowell Rendering Co.	F.	60.13	8.00	.....	8.78	10.87	.....	
Lowell, Mass.								
Peerless Poultry Feed	G.	40.00	8.00	.....	....	.....	.....	Animal products, cooked meat and bone scraps.
Lowell Rendering Co.	F.	40.59	10.67	.....	5.83	7.16	.....	
Lowell, Mass.								
Wayne Egg Mash	G.	18.00	3.75	.....	....	.....	10.00	Dried buttermilk, meat scraps, wheat bran, wheat middlings, corn gluten feed, corn feed meal, ground barley, cottonseed meal, oil meal, alfalfa meal, molasses.
McMillen Co.	F.	19.30	4.26	58.41	6.54	11.49	7.92	
Fort Wayne, Ind.								
Poultry Mash	G.	11 00	2.50	60.00	....	.....	7.00	
McQuesten & Lewis	F.	20.84	4.10	55.49	9.09	10.48	7.00	
Manchester, N. H.								
Manchester Poultry Feed	G.	40.00	12 00	.....	....	.....	.....	Cooked meat and bone scraps, animal products.
Manchester Rendering Co.	F.	45.47	15.38	.....	1.26	5.94	.....	
Manchester, N. H.								
Marsh's Pure Ground Scraps	G.	40.00	8.00	.....	....	.....	.....	Cooked meat and bone scraps.
Geo. E. Marsh Co.	F.	41.64	10.33	.....	5.59	6.95	.....	
Lynn, Mass.								
Bonnie Booster Chick Starter	G.	12 00	3.00	60.00	....	.....	3.00	Ground corn, oats, barley, wheat middlings with mill run of screenings, dried buttermilk, calcium carbonate and salt.
Park & Pollard Co.	F.	13.67	3.72	66.68	3.93	12.00	3.00	
Boston, Mass.								
Growing Feed	G.	10.00	1 50	50.00	....	.....	8.00	Ground corn, wheat, wheat screenings, oats, meat and bone meal, barley, wheat bran with mill run of screenings, wheat middlings, calcium carbonate and salt.
Park & Pollard Co.	F.	15.09	4.65	61.64	7.68	10.94	6.79	
Boston, Mass.								
Lay or Bust	G.	18.00	1.50	40.00	.....	.....	12.00	Ground corn, wheat, wheat screenings, oats, barley, kaffir corn, buckwheat, alfalfa, fish, meat, bone, wheat bran with mill run of screenings, wheat middlings, calcium carbonate and salt.
Park & Pollard Co.	F.	19.46	3.81	57.46	9.64	9.63	11.91	
Boston, Mass.								

Maine Mash W. F. Peel Nashua, N. H.	G. F.	..... 17.73	..... 4.66	..... 57.94	..... 9.35	..... 10.32	..... 6.68	Brown middlings, ground oats, oil meal, animal meal, gluten, corn meal, salt.
Portland Poultry Feed Portland Rendering Co. Portland, Maine.	G. F.	50.00 43.39	12 00 11.43	....	..... 13.78	..... 6.76	....	Cooked meat and bone scraps, animal products.
Tom Boy Poultry Mash Purity Oats Co. Davenport, Iowa.	G. F.	18.00 18.48	4.50 4.66	..... 56.28	..... 1.80	..... 8 78	10.00 9.86	Ground meat, wheat, oat meal, wheat middlings, milo maize, buckwheat, corn meal, barley, oat middlings, millet, gluten feed, kaffir corn, alfalfa meal, hominy feed, wheat bran, oat germ meal, rock phosphate, salt, calcium carbonate and charcoal.
Tom Boy Buttermilk Mash Purity Oats Co. Davenport, Iowa.	G. F.	20 00 22.57	5.00 5.62	..... 54.34	.... 9.54	..... 7.95	10.00 10.00	Dried buttermilk, corn gluten feed, corn meal, corn germ meal, hominy feed, ground oat meal, bran, standard middlings, pulverized meal, alfalfa meal, calcium carbonate, charcoal, and 1% table salt.
Ful-O-Pep Dry Mash Quaker Oats Co. Chicago, Ill.	G. F.	20.00 21.63	4 00 5.45	45.00 53.97	..... 9.52	..... 9.43	10.00 8 91	Hominy feed, yellow hominy feed, corn gluten feed, oat meal, cottonseed meal, wheat bran and wheat middlings, with ground screenings not exceeding mill run, bone meal, fish meal, meat scraps, alfalfa meal, ground grain screenings from wheat.
Purina Chicken Chowder Feed Ralston Purina Co. St. Louis, Mo.	G. F.	19.00 19.06	4.00 4.80	..... 58.91	..... 7.57	..... 9 66	10.00 9.35	Wheat middlings, wheat bran, gluten feed from corn, corn meal, alfalfa flour, linseed flour, granulated meat, 1% salt.
Purina Chicken Fatina Feed Ralston Purina Co., Inc. St. Louis, Mo.	G. F.	12 00 12.28	6.00 6.61	..... 69.25	..... 1.98	..... 9.88	9.00 7.16	Ground oats, ground corn, kaffir meal, barley meal, corn germ meal, wheat middlings, linseed meal and ground sunflower seed.
New Hampshire Poultry Ration Rockingham County Farmers' Exchange Exeter, N. H.	G. F.	20.00 23.01	5.00 6.58	41.00 53.29	..... 7.85	..... 9.24	6.00 4 89	Gluten feed, red dog middlings, oat meal, bran, hominy, high grade meat scraps.
Chic Chuk Russia Cement Co. Gloucester, Mass.	G. F.	45.00 47.53	2.00 1.79	....	..... 41.40	..... 7.22	1.00	Chic-Chuk is a pure, clean, sweet fish meal prepared exclusively from wholesome food fish, as cod, haddock and pollock.

Brand and name and address of manufacturer	Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Wirthmore Buttermilk Baby Chick Food St. Albans Grain Co. St. Albans, Vt.	G. F.	13.50 14.91	5.00 5.32	60.00 64.06	..... 4.42	..... 11.29	5.00 5.00	Pure dried buttermilk, dried milk albumen, fine ground rolled oats, ground wheat, white corn, hominy feed, edible bone meal and wheat middlings.
Wirthmore Buttermilk Mash Feed St. Albans Grain Co. St. Albans, Vt.	G. F.	20.00 22.18	4 00 4.94	50.00 55.84	..... 8.65	..... 8.39	8.50 6.18	Pure dried buttermilk, dried milk albumen, ground oats, barley, corn, wheat bran, wheat middlings not exceeding mill run of screenings, corn gluten feed, beet pulp, rolled oats, choice fine ground beef scraps, fish meal, linseed meal, buckwheat and about ¾ of 1% dairy salt.
Wirthmore Growing Feed St. Albans Grain Co. St. Albans, Vt.	G. F.	15.00 15.73	4.50 4.78	50.00 61.85	..... 7.26	..... 10 38	4.50 5.09	Pure dried buttermilk, dried milk albumen, edible bone meal, ground wheat, ground oats, barley, wheat bran and wheat middlings not exceeding mill run of screenings, red dog flour, choice fine ground beef scrap.
Springfield Poultry Feed Springfield Rendering Co. Springfield, Mass.	G. F.	50 00 45.64	10.00 7.57	....	..... 34.49	..... 7.86	....	
Syragold Dry Mash Syracuse Milling Co. Syracuse, N. Y.	G. F.	18.00 20.10	4 00 5.35	50.00 58.24	..... 4.49	..... 11.82	10.00 8.39	Ground corn, ground oats, hominy feed, corn gluten feed, old process linseed meal, bone and meat meal, wheat, bran and flour middlings with mill run of screenings and salt.
Ti-O-Ga Laying Food Tioga Mill & Elevator Co. Waverly, N. Y.	G. F.	17.00 20.75	2.50 5.40	..... 53.23	5.00 10.99	..... 9.63	6.00 5.59	Wheat middlings, corn gluten meal, corn feed meal, corn meal or hominy, meat and bone scraps, corn gluten feed, wheat bran, phosphate of lime.
Blue Seal Dry Mash H. K. Webster Co. Lawrence, Mass.	G. F.	16.00 17.84	3.00 5.79	55.00 58.74	..... 7.09	..... 10.54	10.00 7.36	Wheat feed, corn meal, gluten feed, rolled oats, ground oats, beef scraps, fish scraps, oil meal and calf meal.

Simplex Brand Beet Scraps	G.	50.00	12 00	.....	.....	.....	.....	
Whitman & Pratt Rendering Co.	F.	43.41	12.79	.....	32.28	7.09	.....	
Boston, Mass.								
WHEAT FEEDS								
Trojan Middlings	G.	15.00	4.00	52.00	.....	.....	6.00	Ground screenings not exceeding mill run.
Allen & Wheeler Co.	F.	16.69	4.89	62.56	4.60	11 26	.....	
Troy, Ohio.								
Trojan Mixed Feed	G.	14.50	4.00	52.00	.....	.....	6.00	Ground screenings not exceeding mill run.
Allen & Wheeler Co.	F.	16.38	4.44	63.28	5.52	10.38	.....	
Troy, Ohio.								
Trojan Red Dog	G.	16.00	4 00	65.20	.....	.....	3.50	
Allen & Wheeler Co.	F.	14.36	4.00	68.76	1.94	10.94	.....	
Troy, Ohio.								
Mixed Feed	G.	15.50	4.00	60.50	.....	.....	6.50	Wheat mixed feed with ground screenings not
Ansted & Burk Co.	F.	15.64	4.48	63.70	5.92	10 26	.....	exceeding mill run.
Springfield, Ohio.								
Wheat Middlings	G.	16 25	4.00	61.50	.....	.....	5.75	Ground screenings not exceeding mill run.
Ansted & Burk Co.	F.	16.25	4.22	63.65	4.26	11.62	.....	
Springfield, Ohio.								
Bailey Fancy Feed	G.	15.00	3 75	49.00	.....	.....	10.00	
E. W. Bailey & Co.	F.	17.14	3.86	61.97	5.82	11.21	.....	
Montpelier, Vt.								
Pure Winter Bran, Pennant Brand	G.	14.50	4.00	.....	.....	.....	10.00	
E. W. Bailey & Co.	F.	16.65	4.31	60.89	6.22	11.93	.....	
Montpelier, Vt.								
Spring Wheat Bran	G.	15 00	4.50	49.00	.....	.....	10.00	
E. W. Bailey & Co.	F.	17.91	4.58	62.05	5.27	10.19	.....	
Montpelier, Vt.								
Capital Mixed Feed	G.	14.00	3 00	60.00	.....	.....	7.00	Wheat bran and second clear flour.
E. W. Bailey & Co.	F.	16.52	5.60	61.47	4.98	11.43	.....	
Swanton, Vt.								
Big Diamond Wheat Bran	G.	13.00	3.50	.....	.....	.....	13.90	Ground screenings not exceeding mill run.
Big Diamond Mills Co.	F.	15.39	4.60	60.85	6.46	12.70	.....	
Minneapolis, Minn.								
Cannon Valley Standard Middlings	G.	15 50	4.00	50.00	.....	.....	10.50	Wheat standard middlings with ground screen-
Cannon Valley Milling Co.	F.	17.48	4.90	59.69	4.84	13.09	.....	ings not exceeding mill run.
Minneapolis, Minn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Commander Standard Middlings	G.	15.00	4.50	.....	.....	.....	11.90	Ground screenings not exceeding mill run.
Commander Mill Co. ..... Minneapolis, Minn.	F.	16.40	5.31	63.58	4.80	9.91	.....	
Commander Wheat Bran	G.	13.00	3.50	.....	.....	.....	13.90	Ground screenings not exceeding mill run.
Commander Mill Co. ..... Minneapolis, Minn.	F.	14.89	4.84	64.68	5.62	9.97	.....	
Durum Flour Middlings	G.	15 50	5.90	64.00	....	.....	7.50	Ground screenings not exceeding mill run.
Commander Mill Co. ..... Minneapolis, Minn.	F.	16.64	5.90	61.63	4.51	11.32	.....	
Durum Wheat Flour Middlings	G.	14.50	5.00	60.00	.....	.....	8.50	Ground screenings not exceeding mill run.
Commander Mill Co.	F.	17.21	5.74	62.85	3.75	10.45	.....	
Soft Winter Wheat Bran	G.	14.50	3.50	.....	.....	.....	12.00	
Commercial Milling Co. ..... Detroit, Mich.	F.	15.22	4.15	63.61	5.63	11 39	.....	
Clinton Mixed Feed	G.	14.00	3.00	60.00	.....	.....	7.00	Wheat bran, wheat middlings, rye feed with mill run of screenings and red dog.
Cunningham Grain Co. ..... Malden, Mass.	F.	13.10	3.49	68.39	3.38	11.64	.....	
Low Grade Flour	G.	15.20	3.00	68.00	.....	.....	1.90	
J. Cushing Co. ..... Fitchburg, Mass.	F.	17.14	3.56	65.65	2.01	11.64	.....	
Wheat Bran	G.	14.00	3.00	.....	.....	.....	10.00	Mill run of screenings.
Dominion Flour Mills, Ltd. ..... Montreal, Canada.	F.	18.24	5.81	59.64	5.45	10.86	.....	
Duluth Imperial Bran	G.	15 00	4.00	64.00	.....	.....	11.50	Wheat bran with ground screenings not exceeding mill run.
Duluth Superior Mfg. Co. ..... Duluth, Minn.	F.	15.81	5.83	61.26	5.23	11.92	.....	
Red Dog Flour	G.	16.00	4.00	67.00	.....	.....	3.50	
Duluth Superior Mfg. Co. ..... Duluth, Minn.	F.	17.54	4.08	64.07	2.83	11.48	.....	

Standard Middlings	G.	16.50	4.50	62.00	....	.....	8.50	Wheat standard middlings with ground screen-
Duluth Superior Mfg. Co. Duluth, Minn.	F.	17.04	5.54	62.66	4.20	10.56	.....	ings not exceeding mill run.
Eagle Roller Mill Co.'s Wheat Middlings	G.	15 00	4.00	53.00	....	.....	11.00	Ground screenings not exceeding mill run.
Eagle Roller Mill Co. New Ulm, Minn.	F.	17.16	4.81	61.74	5.12	11.17	.....	
Flour Middlings	G.	16.00	5 00	54.00	....	.....	8.00	
Eagle Roller Mill Co. New Ulm, Minn.	F.	16.77	5.00	62.89	4.28	11.06	.....	Ground screenings not exceeding mill run.
Superb Red Dog	G.	17.00	5.00	57.00	....	.....	4.00	
Eagle Roller Mill Co. New Ulm, Minn.	F.	18.45	4.63	62.03	3.08	11.81	.....	
Wheat Middlings	G.	15 00	4.00	60.00	....	.....	7.00	Ground screenings not exceeding mill run.
B. A. Eckhart Milling Co. Chicago, Ill.	F.	16.18	4.72	63.10	5.76	10.24	.....	
Ivanhoe Low Grade	G.	18.00	4 50	.....	....	.....	4.00	
Empire Milling Co. Minneapolis, Minn.	F.	17.60	4.44	62.78	2.90	12.28	.....	
E. A. Co. Wheat Bran	G.	14.50	4.00	47.00	....	.....	11.00	Pure wheat.
Everett, Aughinbaugh & Co. Waseca, Minn.	F.	16.31	5.11	60.85	6.57	11.16	.....	
E. A. Co. Wheat Middlings	G.	15 00	3.00	50.00	....	.....	10.00	Ground screenings not exceeding mill run.
Everett, Aughinbaugh & Co. Waseca, Minn.	F.	16.42	5.47	62.28	4.67	11.16	.....	
Dairy Maid Flour Middlings	G.	13.00	3.00	49.00	.....	.....	10.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	16.20	3.44	66.39	3.98	9.99	.....	
Dairy Maid Mixed Feed	G.	14.00	2.50	50.00	.....	.....	11.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	14.86	4.59	64.60	5.11	10.84	.....	
Dairy Maid Mixed Feed	G.	13 00	2.75	48.00	.....	.....	12.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	14.96	4.19	65.28	4.80	10.77	.....	

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Kennel Club Flour	G.	14.00	2.00	60.00	....	.....	1.00	
Federal Mill & Elevator Co. Lockport, N. Y.	F.	15.59	2.39	68.69	1.35	11.98	.....	
Lucky Brand	G.	12.00	3.50	46.00	....	.....	14.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	16.42	4.01	61.37	6.28	11.92	.....	
Lucky Flour Middlings	G.	13.00	3.50	49.00	....	.....	9.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	17.60	5.54	61.63	4.09	11.14	.....	
Sphinx Fancy Flour Middlings	G.	13.00	2.50	53.00	....	.....	7.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	17.21	4.76	62.98	3.87	11.18	.....	
Sphinx Fancy Mixed Feed	G.	13.50	3.00	51.00	....	.....	10.00	Ground screenings not exceeding mill run.
Federal Mill & Elevator Co. Lockport, N. Y.	F.	16.17	4.04	64.47	4.03	11.29	.....	
Improved Grafton Wheat Feed	G.	14.00	2.70	64.10	....	.....	8.40	
Grafton Roller Mill Co. Grafton, N. Dak.	F.	15.90	5.01	61.21	4.82	13.06	.....	
Gwinn's Middlings	G.	15.00	4.00	.....	.....	.....	10.00	Screenings not exceeding mill run.
The Gwinn Milling Co. Columbus, Ohio.	F.	15.20	5.50	64.60	3.51	11.19	.....	
Choice Wheat Bran	G.	13.50	3.25	49.50	.....	.....	12.00	Trace of screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	15.80	5.32	60.74	6.10	12.04	.....	
H. Wheat Middlings	G.	15.50	4.50	54.24	.....	.....	8.50	Made from pure hard wheat.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	17.80	5.26	60.97	4.78	11.19	.....	

Red Dog Flour	G.	15.50	3 75	57.50	....	.....	5.50	Made from wheat.
Hecker-Jones-Jewell Milling Co.	F.	17.80	4.54	62.68	3.82	11.16	.....	
Buffalo, N. Y.								
Standard Middlings	G.	15.00	5.00	50.00	....	.....	10.00	Mill run screenings from wheat.
Hecker-Jones-Jewell Milling Co.	F.	18.44	5.56	59.01	5.46	11.53	.....	
Buffalo, N. Y.								
Wheat Mixed Feed	G.	14 50	4.00	49.00	.....	.....	11.50	Mill run screenings wheat bran, standard middlings, red dog, all made from wheat with mill run screenings.
Hecker-Jones-Jewell Milling Co.	F.	17.28	5.38	60.15	5.08	12.11	.....	
Buffalo, N. Y.								
Heywood Pure Bran	G.	14.00	3.50	55.00	....	.....	12.00	Soft winter wheat guaranteed to contain no ground screenings or dirt from receiving separators.
Heywood Milling Co.	F.	14.76	3.85	64.80	5.58	11.01	.....	
Jackson, Mich.								
Heywood Pure Middlings	G.	15.00	4.25	55.00	....	.....	8.00	Soft winter wheat guaranteed to contain no ground screenings or dirt from receiving separators.
Heywood Milling Co.	F.	16.95	4.84	63.77	4.27	10 17	.....	
Jackson, Mich.								
Heywood Pure Mill Feed	G.	14 00	3.75	55.00	....	.....	10.00	Soft winter wheat guaranteed to contain no ground screenings or dirt from receiving separators.
Heywood Milling Co.	F.	16.09	4.53	64.35	4.61	10.42	.....	
Jackson, Mich.								
Sterling Red Dog	G.	18.00	4.60	.....	.....	.....	4.00	
Hubbard Milling Co.	F.	20.72	5.25	60.59	3.02	10.42	.....	
Mankato, Minn.								
Jenk's Mixed Feed	G.	14.00	3.50	68.00	.....	.....	11.50	Ground screenings not exceeding mill run.
Huron Milling Co.	F.	14.31	4.28	65.15	5.09	11.17	.....	
Harbor Beach, Mich.								
Ideal Fancy Mixed Feed	G.	15 00	4.00	53.00	.....	.....	10.00	Wheat bran, low grade flour, middlings and ground screenings not exceeding mill run.
E. T. & H. K. Ide	F.	15.15	4.13	66.04	3.87	10.81	.....	
St. Johnsbury, Vt.								
Blackhawk Standard Middlings	G.	15.00	4.50	.....	.....	.....	9.20	With ground screenings not exceeding mill run.
International Milling Co.	F.	17.95	5.96	60.91	4.22	10.96	.....	
Minneapolis, Minn.								
Blue Tag Mixed Feed	G.	16.00	4.00	.....	.....	.....	7.50	
F. W. Kelley Co.	F.	17.18	4.41	62.63	4.64	11.14	.....	
St. Johnsbury, Vt.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
True Value Red Dog Ladish Milling Co. Milwaukee, Wis.	G.	14.00	3.50	.....	....	.....	4.00	
	F.	16.61	3.94	64.78	2.78	11.86	.....	
Wheat Bran LaGrange Mills Red Wing, Minn.	G.	11.00	2.80	.....	....	.....	14.80	
	F.	14.51	3.47	65.55	6.21	10.26	.....	
Wheat Bran Larabee Flour Mills Corp. Kansas City, Mo.	G.	15.00	3.50	50.00	....	.....	10.00	Mill run of screenings not to exceed 8%.
	F.	16.77	3.89	61.49	7.13	10.72	.....	
Wasco Bran Lyon & Greenleaf Co. Wauseon, Ohio.	G.	14.50	4.00	54.00	.....	.....	9.50	Wheat bran with ground screenings not exceeding mill run.
	F.	15.04	4.00	64.42	6.61	9.93	.....	
Wasco Mixed Feed Lyon & Greenleaf Co. Wauseon, Ohio.	G.	15.00	4.00	.....	....	.....	8.00	Ground screenings not exceeding mill run made from soft winter wheat.
	F.	16.60	4.27	64.36	4.63	10.14	.....	
Fancy Canadian Middlings Maple Leaf Milling Co. Toronto, Canada.	G.	16.00	5.50	48.00	.....	.....	10.00	Ground screenings not exceeding mill run.
	F.	17.10	5.56	61.76	4.24	11.34	.....	
Rex Wheat Shorts, Screening not exceeding mill run Maple Leaf Milling Co. Toronto, Canada.	G.	16.00	5.50	48.00	.....	.....	10.00	
	F.	16.73	5.60	62.03	4.72	10.92	.....	
Wheat Bran Maple Leaf Milling Co. Toronto, Canada.	G.	14.00	4.50	48.00	.....	.....	10.00	
	F.	15.41	5.29	62.71	5.70	10.89	.....	
Red Dog Massey Milling Co. Omaha, Nebr.	G.	15.00	4.00	55.00	.....	.....	4.00	
	F.	14.43	1.98	70.40	1.46	11.73	.....	

Mennel's Middlings	G.	15 00	4.00	.....	....	.....	6.50	Winter wheat feed with ground screenings not exceeding mill run from soft winter wheat.
Mennel Milling Co.	F.	15.29	4.51	65.21	4.35	10.64	.....	
Toledo, Ohio.								
Mennel's Winter Mixed Feed	G.	15.00	4 00	.....	....	.....	8.00	Winter wheat bran, winter wheat middlings with ground screenings not exceeding mill run.
Mennel Milling Co.	F.	15.11	4.22	64.09	5.55	11.03	.....	
Toledo, Ohio.								
Pure Wheat Bran	G.	15.00	4.00	.....	.....	.....	8.00	
Millbourne Mills	F.	14.65	3.87	66.23	5.86	9.39	.....	
Philadelphia, Pa.								
Red Jacket Flour Middlings	G.	16 00	5.00	.....	....	.....	8.00	
Moffat Flour Mills	F.	15.44	3.83	66.91	2.59	11.23	.....	
Buffalo, N. Y.								
Red Jacket Mixed Feed	G.	15.00	4 50	.....	....	.....	11.00	Wheat bran and middlings.
Moffat Flour Mills	F.	16.25	4.54	62.17	5.13	11.91	.....	
Buffalo, N. Y.								
Wheat Middlings	G.	15.00	4.50	55.00	.....	.....	10.00	Ground screenings not exceeding mill run.
Moseley & Motley Milling Co.	F.	18.25	5.38	60.57	4.09	11.71	.....	
Rochester, N. Y.								
Wheat Bran	G.	14 50	4.00	54.00	.....	.....	10.00	Wheat bran and screenings only.
National Feed Co.	F.	16.51	4.28	62.54	6.30	10.37	.....	
St. Louis, Mo.								
Osota Feed	G.	15.00	4 50	.....	.....	.....	10.00	Wheat bran and middlings with ground screenings not exceeding mill run.
National Milling Co.	F.	17.51	4.76	60.88	5.66	11.19	.....	
Toledo, Ohio.								
Pennant Feed	G.	15.00	3.75	.....	....	.....	8.50	
National Milling Co.	F.	17.97	4.77	62.49	4.20	10.57	.....	
Toledo, Ohio.								
Mixed Feed	G.	15 00	4.50	53.00	.....	.....	10.00	Wheat bran, flour middlings and ground screenings not exceeding mill run.
Northwestern Consolidated Milling Co.	F.	17.37	4.52	61.79	5.29	11.03	.....	
Minneapolis, Minn.								
Planet Feed	G.	15.00	4 00	55.00	.....	.....	8.00	No screenings, no scourings, a mixture of wheat, bran and red dog.
Northwestern Consolidated Milling Co.	F.	18.96	4.88	60.92	4.19	11.05	.....	
Minneapolis, Minn.								
Pure Wheat Bran	G.	13.00	4.00	50.00	.....	.....	13.00	No screenings, no scourings.
Northwestern Consolidated Milling Co.	F.	16.38	5.22	59.92	6.50	11.98	.....	
Minneapolis, Minn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Standard Middlings Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. F.	14 00 16.11	4.00 5.28	53.00 63.39	..... 4.96	..... 10.26	11.00	Ground screenings not exceeding mill run.
Wheat Flour Middlings Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. F.	15.00 18.35	4 00 5.37	57.00 61.92	..... 3.81	..... 10.55	8.00	Ground screenings not exceeding mill run.
XXX Comet Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. F.	16.00 19.26	4.00 4.93	60.00 62.05	..... 2.90	..... 10.86	4.00	Pure wheat products composed of red dog wheat flour.
Wheat Middlings The Ogilvie Flour Mills Co., Ltd. Winnipeg, Canada.	G. F.	15 00 16.22	4.00 5.17	57.00 62.95	..... 4.55	..... 11.11	8.00	Ground screenings not exceeding mill run.
Omar Pure Wheat Red Dog Omaha Flour Mills Co. Omaha, Nebr.	G. F.	14 00 17.91	2.50 3.28	57.00 64.97	..... 3.02	..... 10.82	6.00	Pure wheat white shorts or red dog.
Omar Wheat Shorts and Ground Wheat Screenings Omaha Flour Mills Co. Omaha, Nebr.	G. F.	15.00 17.51	3.50 3.96	52.00 62.18	..... 5.03	..... 11.32	8.00	Mill run of wheat shorts and ground wheat screenings not exceeding 8%.
Pretty Special Wheat Mixed Feed Park & Pollard Co. Boston, Mass.	G. F.	16 00 18.13	4.00 5.35	60.00 61.95	..... 4.07	..... 10.50	9.00	Red dog flour, wheat bran with mill run of screenings.
Wheat Bran Peninsular Milling Co. Flint, Mich.	G. F.	14.00 15.10	3 50 3.58	50.00 64.94	..... 5.91	..... 10.47	11.00	Ground screenings not exceeding mill run.
Pillsbury's Fancy Mixed Feed Pillsbury Flour Mills Minneapolis, Minn.	G. F.	14.00 17.69	4.00 4.84	53.00 61.96	.... 4.67	..... 10.84	10.00	Wheat bran and wheat red dog flour with ground screenings not exceeding mill run.

Pillsbury's Wheat Bran	G.	13.00	4.00	50.00	....	.....	13.00	Ground screenings not exceeding mill run.
Pillsbury Flour Mills	F.	16.10	5.43	61.92	5.83	10.72	.....	
Minneapolis, Minn.								
Pillsbury's XX Daisy	G.	16.00	4 00	60.00	....	.....	4.00	
Pillsbury Flour Mills	F.	19.17	5.09	61.38	3.02	11.34	.....	
Minneapolis, Minn.								
Standard B. Middlings	G.	14.00	4.00	52.00	.....	.....	11.00	Ground screenings not exceeding mill run.
Pillsbury Flour Mills	F.	16.73	5.42	63.32	4.42	10.11	.....	
Minneapolis, Minn.								
Saturn Wheat Bran	G.	13 00	3.00	.....	.....	.....	11.00	With screenings not exceeding mill run.
Pittsford Milling Co., Inc.	F.	18.71	6.08	60.03	5.05	10.13	.....	
Pittsford, N. Y.								
Champion Mixed Feed	G.	13.56	3 58	.....	....	.....	8.47	Ground screenings not exceeding mill run.
Portland Milling Company	F.	15.47	4.26	64.54	4.86	10.87	.....	
Portland, Mich.								
Champion White Middlings	G.	15.10	3.00	64.50	....	.....	.....	
Portland Milling Co.	F.	15.20	3.78	67.69	2 28	11.05	.....	
Portland, Mich.								
Bran	G.	13 00	3.00	50.00	.....	.....	10.00	
Quaker City Flour Mills Co.	F.	13.81	5.80	63.44	6.04	10.91	.....	
Philadelphia, Pa.								
Bell Cow Bran	G.	15.30	5 50	56.00	....	.....	7.60	Ground screenings not exceeding mill run.
Quaker Oats Co.	F.	16.87	5.64	61.55	5.30	10.64	.....	
Saskatoon, Canada.								
Wheat Bran and Screenings	G.	15.00	3.75	.....	.....	.....	10.00	Wheat bran and wheat screenings not to exceed 5% screening.
Red Star Milling Co.	F.	16.26	3.97	61.49	6 25	12.03	.....	
Wichita, Kansas.								
Royal Mixed Feed	G.	16 00	4.00	55.00	6.00	.....	10.00	Wheat bran, flour middlings and ground screenings not exceeding mill run.
Royal Milling Co.	F.	17.29	5.49	59.10	4.98	13.14	.....	
Great Falls, Mont.								
Alta Middlings	G.	15.00	4 50	55.00	....	.....	8.50	Mill run of standard middlings and flour middlings mixed.
Russell-Miller Milling Co.	F.	19.05	5.48	60.81	4.65	10.01	.....	
Minneapolis, Minn.								
Bran	G.	13.00	4.00	52.00	.....	.....	11.00	Made from wheat only.
Russell-Miller Milling Co.	F.	17.82	5.59	60.29	5.88	10.42	.....	
Minneapolis, Minn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Wheat Occident Feed	G.	15.00	4.50	54.00	.....	.....	10.00	Mill run of bran middlings and red dog.
Russell-Miller Milling Co. Minneapolis, Minn.	F.	17.70	5.41	61.00	5.71	10.18	.....	
Franklin Mixed Feed	G.	15 00	4.50	50.00	.....	.....	9.50	Wheat bran, wheat middlings, red dog and ground screenings not exceeding mill run.
St. Albans Grain Co. St. Albans, Vt.	F.	16.96	4.50	63.37	5.01	10.16	.....	
Welden Feed	G.	12.00	3.25	60.00	.....	.....	6.00	Wheat bran, wheat middlings not exceeding mill run of screenings, red dog flour and white corn flour.
St. Albans Grain Co. St. Albans, Vt.	F.	15.11	4.59	63.79	4.69	11 82	.....	
Wirthmore Middlings	G.	14.00	4.00	50.00	.....	.....	8.00	Wheat middlings and red dog flour, less than mill run of screenings.
St. Albans Grain Co. St. Albans, Vt.	F.	16.95	4.30	62.75	4.02	11.98	.....	
Wirthmore Wheat Feed	G.	15.00	4.50	50.00	.....	.....	8.00	Wheat bran and red dog flour.
St. Albans Grain Co. St. Albans, Vt.	F.	15.76	4.69	63.10	4.50	11.95	.....	
Snowball Flour Middlings	G.	16.00	4.00	55.00	.....	.....	9.00	Ground screening not exceeding mill run.
Shane Bros. & Wilson Co. Minneapolis, Minn.	F.	17.29	4.00	63.48	4.15	11.08	.....	
Fancy Broadflake	G.	13.50	4.00	50.00	....	.....	11.00	Wheat bran and ground wheat screenings.
Sheffield-King Milling Co. Minneapolis, Minn.	F.	15.22	4.00	63.52	6.15	11.11	.....	
Gold Mine Feed	G.	15 00	4.50	53.00	.....	.....	10.00	Bran, shorts, low grade flour, wheat product and pulverized screenings.
Sheffield-King Milling Co. Minneapolis, Minn.	F.	15.33	5.24	64.40	4.71	10 32	.....	
Try Me Mixed Feed	G.	16.00	3.50	50.00	.....	.....	9.00	Pure wheat bran middlings and ground screenings not exceeding mill run.
Sparks Milling Co. Alton, Ill.	F.	16.38	3.88	63.46	5.41	10.87	.....	

Bran	G.	14 00	3.00	45.00	....	.....	10.00	Pure wheat with mill run of screenings.
F. W. Stock & Sons Hillsdale, Mich.	F.	16.38	4.28	62.22	5.53	11.59	.....	
Middlings	G.	16 00	4.00	50.00	....	.....	7.00	Pure wheat.
F. W. Stock & Sons Hillsdale, Mich.	F.	16.00	4.03	64.02	4.01	11 94	.....	
Monarch Fancy Wheat Feed	G.	16.00	4.00	50.00	....	.....	10.00	Mill run of screenings.
F. W. Stock & Sons Hillsdale, Mich.	F.	16.31	4.32	61.67	5.05	12 65	.....	
Superior Wheat Feed and Flour	G.	16 00	4.50	.....	....	.....	7.00	With mill run screenings.
F. W. Stock & Sons Hillsdale, Mich.	F.	16.50	4.62	62.82	4.35	11.71	.....	
Superior Wheat Feed and Mill Run Screenings	G.	16 00	4.00	60.00	....	.....	6.00	
F. W. Stock & Sons Hillsdale, Mich.	F.	16.46	4.12	64.38	3.43	11 61	.....	
Star Wheat Middlings	G.	15.00	4.00	54.00	....	.....	8.00	Ground screenings not exceeding mill run.
Star & Crescent Milling Co. Chicago, Ill.	F.	16.25	4.89	64.36	4.53	9 97	.....	
Wheat Bran	G.	16 10	3.90	.....	....	.....	10.30	Gronud screenings not exceeding mill run.
Stokes Milling Co. Watertown, S. Dak.	F.	16.29	4.93	60.39	5.40	12.99	.....	
Bran and Wheat Screenings	G.	14.50	4.00	52.00	.....	.....	12.50	Wheat bran with ground clean wheat screen-
David Stott Flour Mills, Inc. Detroit, Mich.	F.	15.62	4.57	63.28	6.07	10 46	.....	ings.
Pennant Middlings	G.	15.00	4.00	57.00	.....	....	9.00	Brown wheat middling with ground screenings
David Stott Flour Mills, Inc. Detroit, Mich.	F.	17 39	5.08	62.74	3.78	11.01	.....	not exceeding mill run.
Stag Flour	G.	13.50	2.00	67.00	.....	.....	2.00	
David Stott Flour Mills, Inc. Detroit, Mich.	F.	14 32	2.16	70.27	1.04	12.21	.....	
Stott's Fine White Middlings	G.	15.50	4.00	60.00	.....	.....	6.50	
David Stott Flour Mills, Inc. Detroit, Mich.	F.	16.78	4.47	65.09	3.05	10.61	.....	

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Stott's Heavy Mixed Feed David Stott Flour Mills, Inc. Detroit, Mich.	G. F.	14.00 14.98	3.50 4.52	57.50 64.14	..... 4.98	..... 11.38	8.50	Wheat flour, bran and middlings.
Mixed Feed Stratton & Co. Concord, N. H.	G. F.	15.29 15.50	4.30 4.30	63.00 65.50	..... 4.84	..... 9.86	7.93	
Stratton & Co.'s Fancy Brand Stratton & Co. Concord, N. H.	G. F.	15.00 15.52	4.00 4.76	64.00 63.67	..... 5.43	..... 10.62	11.00	Mill run of screenings ground in.
Pure Bran Tennant & Hoyt Co. Lake City, Minn.	G. F.	14.00 14.57	4.00 5.06	..... 64.28	..... 5.47	..... 10.62	11.00	
Wheat Middlings Tennant & Hoyt Co. Lake City, Minn.	G. F.	15.00 16.38	5.00 5.41	..... 63.21	..... 4.36	..... 10.64	9.00	Ground screenings not exceeding mill run.
Angelus Mixed Feed Thompson Milling Co. Lockport, N. Y.	G. F.	15.00 17.04	4.50 4.84	52.00 63.15	..... 4.93	..... 10.04	11.00	Ground screenings not exceeding mill run.
T & C Wheat Mixed Feed Thornton & Chester Milling Co. Buffalo, N. Y.	G. F.	14.00 15.65	4.50 5.72	50.00 63.79	..... 4.72	..... 10.12	11.00	Wheat bran and middlings with ground screenings not exceeding mill run.
Cream Middlings Upton Mill & Elevator Co. Upton Mills, Minneapolis, Minn.	G. F.	15.00 15.76	4.50 5.52	..... 64.20	..... 3.72	..... 10.80	7.00	Containing regular mill run of wheat screenings.
Umeco Red Dog Flour Upton Mills & Elevator Co. Upton Mills, Minneapolis, Minn.	G. F.	17.00 15.41	4.50 4.50	60.00 66.55	..... 2.81	..... 10.73	4.00	
Low Grade Flour George Urban Milling Co. Buffalo, N. Y.	G. F.	16.00 20.03	4.50 5.73	50.00 61.75	..... 3.25	..... 9.24	3.00	

Farmer's Favorite Wheat Middlings	G.	13.00	4.82	.....	....	.....	7.50	Ground screenings not exceeding mill run.
Valley City Milling Co.	F.	16 79	5.09	63.66	4.14	10.32	.....	
Grand Rapids, Mich.								
Rowena Wheat Bran	G.	14.00	3.50	.....	....	.....	10.00	Ground screenings not exceeding mill run.
Valley City Milling Co.	F.	15.33	4.18	62.81	6.44	11.24	.....	
Grand Rapids, Mich.								
Rowena Wheat Cow Feed	G.	13.00	3.50	.....	....	.....	13 00	Ground screenings not exceeding mill run.
Valley City Milling Co.	F.	16.80	4 45	62.91	5.52	10.32	.....	
Grand Rapids, Mich.								
Rowena Wheat Middlings	G.	16.00	3.05	.....	....	.....	6.00	Ground screenings not exceeding mill run.
Valley City Milling Co.	F.	16 69	3.70	65.12	3.67	10.82	.....	
Grand Rapids, Mich.								
Victor Mixed Feed	G.	15.00	4.50	53.31	....	....	10.00	Wheat bran, wheat middlings, low grade flour,
Victor Flour Mills, Inc.	F.	17.27	5.54	61.16	5.15	10.88	.....	with ground screenings not exceeding mill run.
Victor, N. Y.								
Victor Spring Wheat Bran	G.	11.60	4.00	.....	.....	.....	15.00	Ground screenings not exceeding mill run.
Victor Flour Mills, Inc.	F.	16.26	5.12	62.64	6.26	9.72	.....	
Victor, N. Y.								
Voigt's Winter Wheat Middlings	G.	14.50	4.00	52.20	....	.....	10.00	Ground screenings not exceeding mill run.
Voigt Milling Co.	F.	15 76	4.91	65.03	3.96	10.34	.....	
Grand Rapids, Mich.								
Mixed Feed Mill-Run Bran	G.	15.00	4 00	50.00	....	.....	10.00	Shipstuff, shorts and bran from soft winter
Waggoner-Gates Milling Co.	F.	16.93	4.68	62.01	5.80	10.58	.....	wheat.
Independence, Mo.								
Flour Middlings	G.	15.00	4.00	55.00	....	.....	8 00	Ground screenings not exceeding mill run.
Washburn-Crosby Co.	F.	18.65	4 00	62.39	3.68	11.28	.....	
Minneapolis, Minn.								
Standard Middlings	G.	14.00	4.00	52.00	....	.....	11.00	Ground screenings not exceeding mill run.
Washburn-Crosby Co.	F.	17 95	5.50	61.61	4.51	10.43	.....	
Minneapolis, Minn.								
Washburn-Crosby Co.'s Adrian Red Dog Flour	G.	16.00	4.00	50.00	....	.....	4.00	Pure hard wheat.
Washburn Mills	F.	16.66	4.00	66.36	2.29	10.69	.....	
Minneapolis, Minn.								

Brand and name and address of manufacturer		Pounds in 100 lbs. of Feed Stuff						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Washburn-Crosby Co.'s Arlington Flour	G.	14.00	4.00	60.00	....	.....	4.00	Selected wheat.
Washburn Mills	F.	15.43	4 00	62.78	1.36	11.93	.....	
Minneapolis, Minn.								
Washburn-Crosby Co.'s Durum Wheat Bran	G.	13 00	4.00	50.00	....	.....	14.00	With cleaned ground wheat screenings not
Washburn Mills	F.	15.55	5.97	61.94	5.18	11 36	.....	exceeding mill run.
Minneapolis, Minn.								
Washburn-Crosby Co.'s Durum Wheat Bran	G.	12.00	4.00	50.00	....	.....	16.00	Ground screenings not exceeding mill run.
Washburn Mills	F.	13.65	5.04	66.32	4.81	10.18	.....	
Minneapolis, Minn.								
Washburn-Crosby Co.'s Durum Wheat Standard Middlings	G.	14.00	4 00	50.00	....	.....	12.00	With ground screenings not exceeding mill
Washburn Mills	F.	17.09	6.15	61.35	5.05	10.36	.....	run.
Minneapolis, Minn.								
Washburn-Crosby Co.'s Wheat Bran	G.	13 00	4.00	50.00	....	.....	13.00	Ground screenings not exceeding mill run.
Washburn Mills	F.	16.26	5.06	61.34	5.91	11.43	.....	
Minneapolis, Minn.								
Washburn-Crosby Co.'s Wheat Mixed Feed	G.	14.00	4.00	53.00	....	.....	10.00	Ground screenings not exceeding mill run.
Washburn Mills	F.	16.14	4.02	63.91	4.76	11.17	.....	
Minneapolis, Minn.								
"Tea Table" Wheat Bran and Scourings	G.	14.50	3 50	48.00	....	.....	11.50	Wheat bran, wheat scourings and ground
The Weber Flour Mills Corp.	F.	16.34	4.85	61.69	5.96	11.16	.....	wheat screenings not to exceed 8%.
Salina, Kansas.								
Feed Well Standard Middlings	G.	15 00	4.50	50.00	....	.....	7.75	Ground screenings not exceeding mill run.
Wells Flour Milling Co.	F.	16.81	4.50	63.74	4.83	10.12	.....	
Wells, Minn.								
Pioneer Middlings	G.	16.00	4.50	.....	....	.....	11.00	Ground screenings not exceeding mill run.
Western Canada Flour Mills Co., Inc.	F.	16.42	5.38	62.80	3.93	11.47	.....	
Winnipeg, Canada.								

Pioneer Wheat Bran	G.	14.50	3 50	.....	....	.....	12.00	Ground screenings not exceeding mill run.
Western Canada Flour Mills Co., Inc. Winnipeg, Canada.	F.	16.64	5.06	60.92	5.40	11.98	.....	
Kent Mixed Feed	G.	16 00	3.50	54.00	....	.....	10.00	Winter wheat.
Williams Bros. Co. Kent, Ohio.	F.	15.30	4.98	63.19	5.01	11 52	.....	
Wheat Bran and Screenings	G.	14.50	3.50	55.00	6.00	.....	11.00	No to exceed 8% screenings.
Wilson Flour Mills Wilson, Kansas.	F.	16.25	4.29	61.56	6.64	11.26	.....	